UWM Undergraduate Catalog 2014-2015

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HOW TO USE THIS BOOK

This undergraduate catalog is divided into two basic content areas.

The front section (through the Academic Information section) contains basic, noncurricular information pertinent to undergraduate education.

The school and college sections that follow include program requirements, course descriptions, and faculty listings.

KEY TO COURSE NUMBERING SYSTEM

100-299 Lower division courses not open to graduate students for credit.

300-699 Upper division courses that may, if so designated, carry graduate credit. Courses with level "U" are offered for undergraduate credit only; courses with level "U/G" may be offered for undergraduate and/or graduate credit. Insofar as a course approved for graduate credit may not be offered for graduate credit in a given semester, the current Timetable should be consulted. Junior standing is normally a minimum prerequisite for 300-699 courses that carry graduate credit.

Abbreviations in Course Descriptions

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>cr</td>
<td>Credit(s)</td>
</tr>
<tr>
<td>yr</td>
<td>Year</td>
</tr>
<tr>
<td>sem</td>
<td>Semester</td>
</tr>
<tr>
<td>P</td>
<td>Prerequisite(s)</td>
</tr>
<tr>
<td>R</td>
<td>Recommended Course</td>
</tr>
<tr>
<td>NP</td>
<td>Non-repeatable Prerequisite</td>
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<tr>
<td>C</td>
<td>Co-requisite</td>
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<tr>
<td>NC</td>
<td>Non-repeatable Co-requisite</td>
</tr>
<tr>
<td>ER</td>
<td>Enrollment Restriction</td>
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<tr>
<td>fr, soph, jr, sr. grad st</td>
<td>Freshman, Sophomore, Junior, Senior, Grad Standing</td>
</tr>
<tr>
<td>intro</td>
<td>Introductory</td>
</tr>
<tr>
<td>equiv</td>
<td>Equivalent</td>
</tr>
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<td>conc reg</td>
<td>Concurrent Registration</td>
</tr>
<tr>
<td>conc enroll</td>
<td>Concurrent Enrollment</td>
</tr>
<tr>
<td>cons instr</td>
<td>Consent of Instructor</td>
</tr>
<tr>
<td>cons Dept Chair</td>
<td>Consent of Department Chair</td>
</tr>
<tr>
<td>cons Prog Dir</td>
<td>Consent of Program Director</td>
</tr>
<tr>
<td>lit-in-trans</td>
<td>Literature in Translation</td>
</tr>
<tr>
<td>max</td>
<td>Maximum</td>
</tr>
</tbody>
</table>

CHANGES IN PROGRAMS

This catalog includes academic policies, procedures, programs, courses, and requirements in effect at the time of
publication. The University faculty and administration reserve the right to make changes in these regulations; some of these changes may affect students' programs. Efforts will be made to publicize all changes, but it is the responsibility of students to ascertain the requirements of their programs at all times.

COURSE ABBREVIATIONS

The following abbreviations are used to identify UWM courses in this catalog:
AD LDSP: Administrative Leadership
AFRICOL: Africology
ANTHRO: Anthropology
ARABIC: Arabic
ARCH: Architecture
ART: Art
ART ED: Art Education
ARTHIST: Art History
ASTRON: Astronomy
ATM SCI: Atmospheric Sciences
BMS: BioMedical Sciences
BUS ADM: Business Administration
CES: Conservation and Environmental Science
CHEM: Chemistry
CHINESE: Chinese
CIV ENG: Civil Engineering
CLASSIC: Classics
COMMUN: Communication
COMPLIT: Comparative Literature
COMPSCI: Computer Science
COMSDIS: Communication Sciences and Disorders
COUNS: Counseling
CRM JST: Criminal Justice
CURRINS: Curriculum and Instruction
DANCE: Dance
EAS: Engineering and Applied Science
ECON: Economics
ED POL: Educational Policy and Community Studies
ED PSY: Educational Psychology
EDUC: Education
ELECENG: Electrical Engineering
ENGLISH: English
ESL: English as a Second Language
ETHNIC: Ethnic Studies
EXCEDUC: Exceptional Education
FILM: Film
FILMSTD: Film Studies
FINEART: Fine Arts - Interdepartmental
FLL: Foreign Languages and Linguistics
FOOD: Food Studies
FRENCH: French
FRSHWTR: Freshwater Sciences
GEOG: Geography
GEO SCI: Geological Sciences
GERMAN: German
GREEK: Greek
HCA: Health Care Administration
HEBRST: Hebrew Studies
HIA: Health Information Administration
HIST: History
HONORS: Honors Program
IND ENG: Industrial and Manufacturing Engineering
INTL ST: International Studies
ITALIAN: Italian
JAMS: Journalism, Advertising, and Media Studies
JEWSH: Jewish Studies
KIN: Kinesiology
LATIN: Latin
LATINO: Latino Studies
L&I SCI/INFO ST: Library and Information Science
L&S HUM: Letters & Science Humanities
L&S NS: Letters & Science Natural Science
L&S SS: Letters & Science Social Science
LGBT: Lesbian/Gay/Bisexual/Transgender Studies
LINGUIS: Linguistics
MATH: Mathematical Sciences
MATLENG: Materials Engineering
MECHENG: Mechanical Engineering
MTHSTAT: Mathematical Statistics
MUSED: Music Education
MUSIC: Music
MUSPERF: Music Performance
MUSTHPY: Music Therapy
NURSING: Nursing
OCCTHPY: Occupational Therapy
PEACEST: Peace Studies
PHILOS: Philosophy
PHY ED: Physical Education
PHYSICS: Physics
POL SCI: Political Science
POLISH: Polish
PORTUGS: Portuguese
PSYCH: Psychology
RUSSIAN: Russian
SOCIOL: Sociology
SOC WRK: Social Work
SPANISH: Spanish
SPT&REC: Sport and Recreation
SRB-CRO: Serbo-Croatian
THERREC: Therapeutic Recreation
THR BA: Theatre BA
THRPTTP: Theatre PTTP
UKRNIAN: Ukrainian
URBPLAN: Urban Planning
URB STD: Urban Studies
UWS NSG: UW System Collaborative BS for RNs
WMNS: Women’s Studies
PREREQUISITE COURSE DEFINITIONS

**R-Recommended Course:** A course that the instructor strongly recommends be taken prior to enrollment in a subsequent course.

Ex.: ANTHRO 334 American Indians of the Southwest . . . Prereq: ANTHRO 314 (R). ANTHRO 314 is recommended for students enrolling in ANTHRO 334.

**P-Prerequisite:** A course in which a student is required to earn credit prior to being allowed to enroll in a subsequent higher level course. A prerequisite course may not be taken for credit subsequent to the earning of credit in the higher level course.

Ex.: PSYCH 205 Personality . . . Prereq: PSYCH 101 (P). Students must earn credit in PSYCH 101 before enrolling in PSYCH 205, and may not receive credit for PSYCH 101 after enrolling in PSYCH 205.

**NP-Nonrepeatable Prerequisite:** A prerequisite course for which the student is not permitted to substitute the grade earned when the course is repeated subsequent to earning credit in the higher level course.

Ex.: COMPSCI 252 Computer Programming II . . . Prereq: COMPSCI 152 (NP). Students may not repeat COMPSCI 152 for the purpose of receiving a higher grade after enrolling in COMPSCI 252.

**C-Corequisite:** A course that may be taken as either a prerequisite or as a concurrent registration with the higher level course.

Ex.: BUS ADM 210 Introduction to Management Statistics . . . Prereq: MATH 211 (C) or MATH 231 (C). Students must enroll in MATH 211 or 231 either prior to or at the same time as they enroll in BUS ADM 210.

**NC-Nonrepeatable Corequisite:** A corequisite course for which the student is not permitted to substitute the grade earned when the course is repeated subsequent to earning credit in the higher level course.

Ex.: HLTHMNT 232 Nursing Practice for Health Promotion . . . Prereq: admission to enroll in clinical nursing major; HLTHMNT 210 (NC), 211 (NC); FNDNURS 230 (NC); HLTHRST 320 (NC). Students must enroll in the four listed (NC) courses either prior to or at the same time as they enroll in HLTHMNT 232. They may not repeat any of these four courses for the purpose of receiving a higher grade after enrolling in HLTHMNT 232.

**ER-Enrollment Restriction:** A course which is not open for enrollment to students who have earned credits in a specified course (or courses) with similar or overlapping content.

Ex.: ECON 100-after cr is earned in ECON 103 or 104.

A course number followed by another number in parentheses means that the course was previously offered under the number in parentheses. The two courses are the same course and the repeat policy applies.

Ex.: HUM KIN 270 (370) - HUM KIN 270 is the same course as HUM KIN 370. A student with credit in HUM KIN 370 may enroll in 270 as a repeat unless 370 was taken more than once.

This publication may be requested in accessible format.
General Education Requirements

The General Education Requirements are intended to give structure to each student's education while providing the student the greatest possible freedom to design an individual academic program. These requirements include two major categories, competency and distribution.

The competency requirements are designed to assure basic proficiency in oral and written communication, quantitative literacy, and foreign language. The GER Quantitative Literacy Part A and Oral and Written Communications Part A requirements should be completed early in the academic career to ensure acquisition of critical skills for subsequent coursework. Many UWM schools/colleges require completion of Part A of those competencies prior to advancing to the professional portion of the major. Completion of the relevant Part A competency is also a prerequisite for some intermediate and advanced courses. The distribution requirements are designed to provide students with a broad body of knowledge in the areas of the arts, humanities, natural sciences, and social sciences as a foundation for specialization.

Specific GER requirements are as follows:

**COMPETENCY REQUIREMENTS**

**Oral and Written Communication (OWC) Competency**
OWC Part A: Completion of OWC Part A can be demonstrated by satisfying one of the following options:

A. earning at least three credits with a grade of C or higher in English 102*; or
B. transferring at least three credits with a grade of C or higher in a course equivalent to English 102 or higher level expository writing course*; or
C. achieving an appropriate score on the English Placement Test (EPT).

OWC Part B: The OWC Part B is satisfied by completing an approved advanced course (at least three credits) with a significant written or oral communication component by students who have completed the Part A requirement.

Courses that count toward the OWC Part B requirement may be offered in a variety of disciplines and students are encouraged to choose the course that matches their interests and helps them best meet the requirements of their degrees.

Quantitative Literacy (QL) Competency

QL Part A: Completion of QL Part A can be demonstrated by satisfying one of the following options:

A. earning at least three credits with a grade of C or higher in Math 103 (formerly 106), 105, 175, or equivalent courses*; or
B. achieving a placement code of at least 30 on the mathematics placement test.

QL Part B: The QL Part B is satisfied by completing at least one approved QL Part B course (at least three credits) as decided by the major. QL Part B courses make significant use of quantitative tools in the context of other course material.

* These courses may not be taken credit/no credit if they are to be used to satisfy the OWC Part A requirement or QL Part A requirement.

Foreign Language: Completion of the foreign language requirement can be demonstrated by satisfying one of the following options:

A. complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language; or
B. complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college-level instruction in a single foreign language; or
C. demonstrate foreign language ability at least equivalent to item B above by means of a satisfactory score on an approved placement, proficiency, departmental, or other appropriate examination.

Exceptions to GER
Students who entered UWM as freshmen and/or earned transferable credit prior to September 2013 are not responsible for the Oral and Written Communication Part B or the Quantitative Literacy Part B.

Students who entered UWM as freshmen and/or earned transferable credit prior to September 1999 are not responsible for the GER foreign language competency. However, individual schools and colleges may require completion of higher-level foreign language courses; students are strongly encouraged to check with their advisors and/or review their Academic Requirements report on PAWS.

In general, second degree candidates from an accredited institution and students whose first semester in a degree program at an accredited institution predates September 1986 are not subject to the General Education Requirements.

All degree programs have specific requirements beyond GER. Consult with an academic advisor to design an appropriate course of study.

DISTRIBUTION REQUIREMENTS
Courses taken for distribution provide the general educational background for each student. The distribution requirements comprise course choices from the following knowledge areas:

**A. Standard Distribution**

- **The Arts.** Three credits in a course in the history, philosophy, theory, or practice of the creative and interpretive arts (e.g., visual arts, dance, music, and theatre).
- **The Humanities.** A total of 6 credits in at least two courses.
- **The Natural Sciences.** A total of 6 credits in at least two courses. At least one course must include laboratory or field experience illustrating the generation and testing of data and the application of concepts and knowledge to the solution of problems.
- **The Social Sciences.** A total of 6 credits in at least two courses.
- **Cultural Diversity.** All UWM students who are subject to the GER (and entered UWM in fall 1989 or later) must complete, as part of their distribution requirements, 3 credits pertaining to the study of the life experiences of African Americans, Latino/Hispanic Americans, American Indians, or Asian Americans.

A list of GER Standard Distribution courses may be found online at [www.ger.uwm.edu](http://www.ger.uwm.edu). Individual schools and colleges may have limitations on what GER courses from other schools and colleges can be counted; students should check with their advisor.

**B. Cultures and Communities Option**

Students may choose the Cultures and Communities (CC) option to satisfy their GER distribution requirements. CC courses emphasize diversity and cross-cultural literacy, community-based learning, multicultural arts, global studies, and the cultural contexts of science, health care, and technology. A Service Learning course also is required. Students who complete the CC program receive the Cultures and Communities Certificate upon graduation.

A list of CC courses may be found online at [www.cc.uwm.edu](http://www.cc.uwm.edu). Individual schools and colleges may have limitations on what GER courses from other schools and colleges can be counted; students should check with their advisor. For more information, contact the Cultures and Communities Program, Holton Hall G36, (414) 229-5960.

**Required Areas of Study**

The CC Certificate requires students to choose at least 15 of their GER credit hours according to the following plan of study.

**Area 1: Cultures and Communities Core Course (3 cr.).** Multicultural America (satisfies Cultural Diversity and Humanities, Social Science or Art GER requirements). May be taken as Anthropology 150, Art 150, English 150, Film 150, History 150, Sociology 150, Urban Planning 350, Urban Studies 150, or Women's Studies 150.

**Area 2: Cultures and Communities of the United States (3 cr.).** Issues and methods in the comparative study of cultures and communities of the U.S. May be fulfilled by appropriate accredited GER or Cultural Diversity courses in any discipline, school, or college.

**Area 3: Global Perspectives on Culture and Community (3 cr.).** Issues and methods in the comparative study of cultures and communities outside North America and Europe. May be fulfilled by appropriate accredited GER courses in any discipline, school, or college or through an appropriate study abroad experience.

**Area 4: Art, Culture, and Community (3 cr.).** May be fulfilled by courses that relate the theory and production of art (dance, music, visual arts, film, and theater) to cultural and community contexts. Restricted to courses in the Peck School of the Arts except through special petition.

**Area 5: Science, Culture, and Society (3 cr.).** Includes courses that examine how scientific knowledge may be
understood in relation to issues in culture and society. May be fulfilled by enrollment in classes with a Natural Sciences or Social Sciences accreditation.

**Community Engagement and Service Learning.** Within their course distribution, students will take at least one class with a Service Learning component. The core course (Multicultural America) satisfies this requirement when taken in the fall or spring semesters.

*(Please note: The number of credit hours and the distribution across knowledge areas must still conform to the totals listed under the GER Standard Distribution described in Part A above.)*

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**Degree Requirements**

The minimum number of credits required for graduation is 120, but many degree programs require 130 or more. Consult the appropriate school or college section in this Catalog for specific degree requirements associated with each program or major.

**Class Standing/Level in School**

Prerequisites for certain courses are determined by class standing. The chart below presents the number of credits for the different class standings.

<table>
<thead>
<tr>
<th>Class Standing</th>
<th>Business &amp; Information Studies</th>
<th>AOC/L&amp;S</th>
<th>Nursing</th>
<th>All Others</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore</td>
<td>24-55</td>
<td>24-55</td>
<td>28-57</td>
<td>24-57</td>
</tr>
<tr>
<td>Junior</td>
<td>56-85</td>
<td>56-87</td>
<td>58-95</td>
<td>58-85</td>
</tr>
<tr>
<td>Senior</td>
<td>86 or more</td>
<td>88 or more</td>
<td>96 or more</td>
<td>86 or more</td>
</tr>
</tbody>
</table>

The prerequisite given in the course listing refers to the qualifications and/or standing needed to enroll in a given course. If no prerequisite is listed, the course is generally open to all students. If more than one prerequisite is listed, all are necessary unless a choice is clearly indicated. A student who enrolls in a course without the required prerequisites may be dropped.

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**Course Load**

A full course load for undergraduates is considered to be a minimum of 12 credits, except for students enrolled in the Academic Opportunity Center, for whom it is 8. This definition may differ from that of the Veterans Administration, the Selective Service System, or other agencies. UWM assumes no responsibilities in this connection.

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**Grading System**

UWM uses a letter grade system that includes "plus" and "minus" grades and is based on a 4.000 scale. For convenience in computing averages, each letter grade carries a specified number of points per credit. The scale of grades and points follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>(Points per credit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade</td>
<td>Grade Points</td>
</tr>
<tr>
<td>-------</td>
<td>-------------</td>
</tr>
<tr>
<td>A</td>
<td>4.000</td>
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<tr>
<td>A-</td>
<td>3.670</td>
</tr>
<tr>
<td>B+</td>
<td>3.330</td>
</tr>
<tr>
<td>B</td>
<td>3.000</td>
</tr>
<tr>
<td>B-</td>
<td>2.670</td>
</tr>
<tr>
<td>C+</td>
<td>2.330</td>
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<tr>
<td>C</td>
<td>2.000</td>
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<tr>
<td>C-</td>
<td>1.670</td>
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<tr>
<td>D+</td>
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<tr>
<td>D</td>
<td>1.000</td>
</tr>
<tr>
<td>D-</td>
<td>0.670</td>
</tr>
<tr>
<td>F(0-16)</td>
<td>0.000</td>
</tr>
</tbody>
</table>

In addition, students may be allowed to take a limited number of courses on a "Credit/No Credit" basis, and may enroll on an "Audit" basis in courses for which they do not wish to obtain college credit. The following symbols are used where grade points are not involved:

- **I**: Incomplete
- **S**: Satisfactory (Zero credit* and Audit courses only)
- **U**: Unsatisfactory (Zero credit* courses only)
- **Credit**: C- or above (credit/no credit courses only)
- **No Credit**: Below C- (credit/no credit courses only)
- **NC**: Not completed (audit courses only)
- **Not Rptd**: Grade was not submitted in time to be reported.
- **W**: Course dropped by student after fourth week of semester or first quarter of shorter session
- **WR**: Administrative drop (enrollment in course violates permitted number of repeats)
- **#W**: Administrative drop (enrollment in course violates permitted number of repeats), effective March 2002
- **R**: Repeat course (counts in GPA)
- **#**: Repeat course (does not count in GPA)

* Except English 090/095, ESL 096, and Math 090/095. Letter grades are assigned for these courses, although they carry no degree or GPA credit.

### F Grades – Additional Information

Effective Fall 2004, the University modified its system for assigning grades of F in order to comply with federal requirements for students receiving financial aid. When reporting a grade of F, instructors also will report a number corresponding to the student's "week of last participation" in the course. This is the last week of the term for which there is documented evidence of the student's participation in the course. A student receiving the grade of F0 would, therefore, be one who never attended or participated, whereas a student grade of F16 would signify completion of the entire term. The numeral for "week of last participation" will be reflected on unofficial transcripts and grade reports. On official transcripts, only the grade of F will be reflected.

### Grade Point Average
The number of grade points earned in a course is computed by multiplying the points for the grade by the number of credits offered for the course. (Example: A B earned in a three-credit course would give you nine grade points.)

The general quality of a student's work is expressed in terms of the grade point average (GPA). This is the total number of grade points earned divided by the total number of GPA credits. The highest possible average is 4.000 or an A in every subject.

The UWM grade point average recorded on your official transcript is based solely upon credits earned or attempted at UWM on a regular graded basis. Even though you may receive credits for course work taken elsewhere, such transfer credits are not counted as part of the GPA at UWM. Some schools and colleges have different standards for GPA calculation and may include transfer work for admission or graduation; see degree requirements within each school/college for specifics. Credits granted by examination or UWM credits taken on an audit or credit/no credit grading basis also are excluded from the official UWM grade point average.

If you are returning to UWM and have not previously earned your bachelor's degree, your cumulative GPA will continue from your last point of enrollment. If you have previously earned your bachelor's degree, you should apply as a "Second Degree" student. Your credits and GPA will start over with the courses you take upon your return, and your original record cannot be altered.

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**University-wide Academic Action Policy**

The University-wide Academic Action Policy establishes minimum standards for undergraduate students enrolled in schools and colleges. Individual schools and colleges may adopt stricter criteria; students should consult the school/college advising offices for specific information.

A student whose GPA falls below minimum university-wide standards for any grading period will be subject to the following academic actions.

- **Academic Probation**: Imposed on students whose cumulative GPA falls below 2.000. The student on academic probation whose semester GPA is 2.000 or better, but whose cumulative GPA remains below 2.000, is permitted to continue on academic probation.
- **Cleared Probation**: Achieved when cumulative GPA increases to 2.000 or above.
- **Dropped for One Semester**: Imposed on any student on academic probation who fails to earn a semester GPA of 2.000.
- **Final Probation**: Applies to a student who is permitted to enroll after any drop action. The student on final probation whose semester GPA is 2.000 or better, but whose cumulative GPA remains below 2.000, is permitted to continue on final academic probation.
- **Dropped for Two Years**: Imposed on any student on final probation who fails to achieve a semester and cumulative GPA of 2.000 or better.
- **Reinstatement/Readmission**: A dropped student may be reinstated immediately after a drop action or readmitted after the drop period. A readmitted or reinstated student is placed on final probation.

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**Academic Drop**

Academic drop is dismissal from the University for academic ineligibility. Academic drop is initiated by administrative offices. The student must apply for readmission and be granted permission to re-enroll by the dean of the school or college from which the student was dropped.

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**Incompletes**
You may be given an incomplete if you have carried a subject successfully until near the end of the semester but, because of illness or other unusual and substantiated cause beyond your control, have been unable to take or complete the final examination or to complete some limited amount of coursework. An incomplete is not given unless you prove to the instructor that you were prevented from completing the course requirements for just cause as indicated above.

Undergraduates are required to complete a course marked incomplete prior to the end of the next succeeding semester (excluding summer sessions and UWinteriM). If you do not remove the incomplete during this period, the report of I will lapse to F.

Overloads

The maximum credit load for undergraduates is 18 credits in all schools and colleges, except Fine Arts (18 credits or three studio courses). Students enrolling in more than 18 credits will be assessed extra tuition above the normal full-time rate. A student must obtain approval for an overload in the office of his/her academic dean. Different credit load maximums apply during the summer and winter sessions. Consult the UWinteriM or Summer Sessions Schedule of Classes.

Repeating Courses

Unless a restriction is stated in the Schedule of Classes, undergraduates may repeat a course only once, and only the higher of the two grades will be calculated into the grade point average (GPA). Both attempts will appear on the student's transcript.

If the UWM course repeats a course for which the student received transfer credit, only the UWM course will be calculated into the GPA, regardless of grade. Both attempts will be shown on the transcript. Once a bachelor's degree has been earned, the academic career (credits, GPA, and coursework) starts over with any subsequent enrollment and the original record cannot be altered. Courses taken after the bachelor's degree has been earned do not count as repeats of courses taken prior to the posting of the degree.

A student will not be permitted to repeat any course more than once without the prior approval of the student's school/college advising office. Further restrictions apply; check with the school/college or particular department. The single repeat limit also applies to courses taken for audit or credit/no credit.

Note: Exceptions to this policy are variable-topic courses, which may be taken for credit as often as permitted for that particular course, as specified in the Schedule of Classes. A variable-topic course may count as a repeat of a previously taken course only if the topic is identical to that of the student's earlier enrollment and the repeat occurs within the same academic career.

Students who took a course as a repeat prior to fall 1988 are entitled to one additional enrollment. Transfer students who did not previously take a course at UWM are entitled to one repeat at UWM of a course taken at a previous institution.

In courses of limited enrollment, students who have not taken the course previously have priority over students who are repeating the course. Individual schools and colleges may adopt stricter criteria. It is generally advisable for any student to consult an advisor before registering to repeat a course.

If you have previously earned your degree from UWM, your attempted and earned credits as well as your cumulative GPA will start over with the courses you take in pursuit of your second degree. Courses taken as part of your first degree will not be considered repeats. Your original record cannot be altered.
Residence Credit Requirement

Consult individual school or college sections for requirements regarding the number and kinds of credits a student must take in residence at UWM to be eligible to receive a UWM degree.

Graduation

Students must meet the graduation requirements of their school or college, which includes notifying the advising office in the school or college of their intent to graduate at least one semester prior to graduation. Generally, students may begin to apply for May Commencement in mid-November, and December Commencement in mid-April. To apply for graduation, log in to PAWS (www.paws.uwm.edu). From the "Academics" section of your Student Center, click on the "Other Academic" drop-down box, select "Apply for Graduation," and click on the double arrows to proceed to the application.

Commencement exercises are held in either May or December. Students who graduate at the end of the summer sessions may participate in the May or December Commencement. Students who graduate at the end of the UWinteriM session may participate in December Commencement. Attendance at Commencement is optional.

Commencement Honors are listed below.

Excess Credits Policy

A University of Wisconsin System (UWS) policy is in effect at all UWS institutions. Under this policy, students pursuing their initial undergraduate degree(s) who have accumulated more than 165 total credits (counting all credits earned at UW campuses as well as credits taken at WTCS institutions and accepted for degree credit at UWS institutions) will be assessed a 100% surcharge on tuition for any additional credits (i.e., your tuition will be doubled). For more specific information about this policy, contact your academic advisor.

Students Called to Military Service

Students called into active military service should contact the Military Educational Benefits Office for more information, Mellencamp Hall 168, (414) 229-5699, or visit the website at www.uwm.edu/mebo.

Honors for Scholarship

<table>
<thead>
<tr>
<th>Type of Honors</th>
<th>Architecture &amp; Urban Planning</th>
<th>The Arts</th>
<th>Business Administration(^1)</th>
<th>Education</th>
<th>Engineering &amp; Applied Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commencement Honors</td>
<td>Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

\(^1\) Business Administration includes Accounting, Finance, Information Systems, Management, Marketing, and Real Estate.
### Dean's Honor List

<table>
<thead>
<tr>
<th>GPA of 3.750 or above (Levels 1, 2)</th>
<th>GPA of 3.750 or above</th>
<th>GPA of 3.500 or above</th>
<th>GPA of 3.750 or above</th>
<th>GPA of 3.500 or above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean's Honors</td>
<td>To graduating seniors with 2 highest cum GPAs (level 2).</td>
<td>Major achievements in one or more of the arts.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Departmental Honors</td>
<td>-</td>
<td>Dept. recommendation for Honors excellence in performance not reflected in GPA.</td>
<td>-</td>
<td>Curr &amp; Inst- 3.250 GPA for all UWM courses completed prior to final sem, plus positive faculty rec from student teaching.</td>
</tr>
</tbody>
</table>

### Final Honors

| Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above. |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|

### High Honors in the Major

| GPA of 3.750 or above for courses in major & 3.500 GPA for last 60 UWM cr (Level 2). | Cum GPA of 3.500 and dept. recommendation. | - | Ed Pol & Comm Studies: 3.500 cum GPA on all SOE credits. | - |

### Honors Degree and Honors Degree with Thesis

| To graduating seniors who complete Honors College requirements. |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|

### Honors in the Major

| GPA of 3.500 or above for courses in major & 3.250 for last 60 UWM cr (level 2). | 3.500 GPA in major and dept. recommendation. | - | Ed Pol & Comm Studies: 3.200 GPA on all SOE credits. | - |

### Phi Beta Kappa

| - | - | - | - | - |

### Sophomore Honors

| Sophomores with 24 or more graded UWM credits and a 3.500 GPA qualify for Sophomore Honors. They are invited to an honors convocation in April of each year. |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|

### Honors for Scholarship (cont.)

<table>
<thead>
<tr>
<th>Type of Honors</th>
<th>Health Sciences</th>
<th>Information Studies</th>
<th>Letters &amp; Science</th>
<th>Nursing</th>
<th>Social Welfare</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commencement Honors</td>
<td>Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. In schools and colleges in</td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
which fewer than 15% of the traditional students have a 3.500 GPA, all-university honors will be awarded to approximately the top 15% of graduating students. A criterion GPA (not lower than 3.200) for this 15% will be calculated based on statistics from the previous comparable semester. Please note that for honors calculation, the GPA is not rounded and is truncated at the third decimal (e.g., 3.499).

<table>
<thead>
<tr>
<th>Dean's Honor List²</th>
<th>GPA of 3.750 or above</th>
<th>GPA of 3.750 or above</th>
<th>GPA of 3.750 or above</th>
<th>GPA of 3.750 or above</th>
<th>GPA of 3.750 or above</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dean's Honors</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Departmental Honors</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Final Honors³</td>
<td>Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>High Honors in the Major</th>
<th>GPA of 3.75 or above for courses in the major</th>
<th>GPA of 3.75 or above for courses in the major</th>
<th>GPA of 3.75 or above for courses in the major</th>
<th>GPA of 3.75 or above for courses in the major</th>
<th>GPA of 3.75 or above for courses in the major</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honors Degree and Honors Degree with Thesis</td>
<td>To graduating seniors who complete Honors College requirements.</td>
<td>To graduating seniors who complete Honors College requirements.</td>
<td>To graduating seniors who complete Honors College requirements.</td>
<td>To graduating seniors who complete Honors College requirements.</td>
<td>To graduating seniors who complete Honors College requirements.</td>
</tr>
</tbody>
</table>

| Honors in the Major ⁴ | 3.500 GPA or above on courses completed at UWM following entrance to a major (a minimum of 30 credits must be included). | GPA of 3.500 GPA on all cr attempted. | 3.500 GPA on all cr that count toward the major, and 3.500 GPA on all advanced cr that count toward the major. Departments/programs set course and other requirements. | 3.500 GPA in major courses, including social science credits completed at UWM. | 3.500 GPA in major courses, including social science credits completed at UWM. |
| Phi Beta Kappa        | - | - | To be elected to Phi Beta Kappa, must be L&S degree candidate; have sufficient cr in humanities, social sciences, foreign languages, math, and general liberal studies; and have completed at least 60 graded cr at UWM. Jrs. must be in upper 2% of class, with 3.800 cum GPA. Srs. must be in upper 8% of class, with 3.600 cum GPA. | - | - |
| Sophomore Honors      | Sophomores with 24 or more graded UWM credits and a 3.500 GPA qualify for Sophomore Honors. They are invited to an honors convocation in April of each year. | Sophomores with 24 or more graded UWM credits and a 3.500 GPA qualify for Sophomore Honors. They are invited to an honors convocation in April of each year. | Sophomores with 24 or more graded UWM credits and a 3.500 GPA qualify for Sophomore Honors. They are invited to an honors convocation in April of each year. | Sophomores with 24 or more graded UWM credits and a 3.500 GPA qualify for Sophomore Honors. They are invited to an honors convocation in April of each year. | Sophomores with 24 or more graded UWM credits and a 3.500 GPA qualify for Sophomore Honors. They are invited to an honors convocation in April of each year. |

¹ Beta Gamma Sigma is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

²

³

⁴
Applies to full-time student's GPA on 12 or more graded credits in a given semester.

3 The Final University Honors criteria have been revised to make them standard across all UWM schools and colleges. The new criteria take effect beginning with students who graduate in May 2011.

4 Refers to GPA earned in courses in the major.

5 Juniors in Occupational Therapy with a cumulative 3.500 GPA in required courses, and faculty/staff sponsorship, can apply to the Honors Committee for Honors in Occupational Therapy.

6 Applies to Bachelor of Science in Information Science and Technology degree program.

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### Credit/No Credit Option

*To be granted credit for a course for which you have registered credit/no credit, you must earn a grade of C- or better. Consult the table below to determine whether you may enroll for courses on a credit/no credit basis. Courses may not be taken credit/no credit if they are to be used to satisfy the GER English and mathematics competencies or awarding of final honors.*

<table>
<thead>
<tr>
<th>School or College</th>
<th>Who qualifies?</th>
<th>Which courses may be taken?</th>
<th>Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Opportunity Center (AOC)</strong></td>
<td>AOC undergraduates follow rules listed for L&amp;S students.</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td><strong>Architecture and Urban Planning</strong></td>
<td>Pre-Architecture students and upper-level students with a 2.500 cumulative GPA.</td>
<td>Elective courses; courses other than the 48 credits required for the Architectural Studies degree.</td>
<td>Maximum of eight courses; one course per semester.</td>
</tr>
<tr>
<td><strong>The Arts</strong></td>
<td>Undergraduates in The Arts.</td>
<td>Courses outside the major. Any course that would fulfill the core curriculum requirements.</td>
<td>One course per semester; maximum of eight courses.</td>
</tr>
<tr>
<td><strong>Business Administration</strong></td>
<td>Undergraduates in Business and Pre-Business.</td>
<td>All non-Business (courses outside the School of Business Administration) that are not required as part of the student's major.</td>
<td>Maximum of eight courses; one course per semester. No Business course may be taken on a C/NC basis by any student regardless of their program unless it is only offered on a C/NC basis. Pre-Business students may not take Econ 103, Econ 104, or Math 211 on a C/NC basis.</td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td>Undergraduates in Education and Pre-Education.</td>
<td>Please see your advisor.</td>
<td>Please see your advisor.</td>
</tr>
<tr>
<td><strong>Engineering and Applied</strong></td>
<td>Undergraduates in Engineering and Applied Science.</td>
<td>Free elective or arts/humanities/social science elective courses.</td>
<td>Maximum of 12 credits; no more than three credits in any one semester.</td>
</tr>
<tr>
<td>Science</td>
<td>Health Sciences</td>
<td>Undergraduates admitted to the College of Health Sciences.</td>
<td>No required courses in any of the pre-professional or professional programs may be taken on a C/NC basis.</td>
</tr>
<tr>
<td>---</td>
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<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>Information Studies</strong></td>
<td>Undergraduates in Information Resources.</td>
<td>All non-Information Studies (courses outside the School of Information Studies) that are not required as part of the student's major.</td>
<td>Maximum of eight courses; one course per semester.</td>
</tr>
<tr>
<td><strong>Letters &amp; Science</strong></td>
<td>Undergraduates in Letters &amp; Science.</td>
<td>Courses other than Honors courses that are not in the student's major or minor.</td>
<td>One course per semester; maximum of eight courses.</td>
</tr>
<tr>
<td><strong>Nursing</strong></td>
<td>Undergraduates in Nursing.</td>
<td>Non-clinical elective courses in Nursing.</td>
<td>Maximum of six credits; no more than one course per semester.</td>
</tr>
<tr>
<td><strong>Social Welfare</strong></td>
<td>Undergraduate majors and pre-majors in Social Work and Criminal Justice.</td>
<td>Only used in courses outside the 54-65 credit requirements in the Social Work or Criminal Justice major.</td>
<td>One course per semester; maximum of eight courses.</td>
</tr>
<tr>
<td><strong>University Special and Off-Campus</strong></td>
<td>University Special Students should contact an advisor in the Department of Admissions and Recruitment. Off-campus students should contact the appropriate program coordinator.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Some courses are offered on a C/NC basis only. These may be taken in addition to the above limits. C/NC courses are not counted in the GPA, but courses in which credit is earned will count toward graduation. Courses may be changed from a regular graded basis to C/NC or vice versa only during the same period as courses may be added. Only one such change may be made per semester per course.
Academic Opportunity Center

Mitchell Hall, Room 177
(414) 229-4696
www.uwm.edu/aoc

Students with the potential for success, but whose previous academic preparation and/or background may not have adequately prepared them for college, are offered admission through the Academic Opportunity Center (AOC) by the Office of Undergraduate Admissions. The AOC is an academic support program comprised of advising and instructional components that work closely together to assist students in achieving academic success.

When a student is admitted via the AOC, the advisor becomes the student's first point of contact. The advisor helps each student interpret placement test scores and register for classes. S/he also encourages tutoring when necessary, informs students of university policies and procedures, serves as a referral source, helps students gain information about financial aid, and provides other information as needed to succeed at UWM.

Many of the foundational courses are taught by AOC instructors in classes that typically are smaller than general
university classes, and offer more individualized instruction. The program's academic advisors have a smaller student caseload, which enables them to offer intensive advising and to monitor progress in regular meetings with each student throughout the semester.

For more information, please contact the Academic Opportunity Center at (414) 229-4696, or visit our website at www.uwm.edu/aoc.

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**Advanced Placement Program (AP)**

*Vogel Hall, 3253 North Downer Ave.*
*(414) 229-2222*

High school seniors who have taken college-level courses in cooperation with the College Entrance Examination Board's (CEEB) Advanced Placement Program (AP) may take the appropriate exams and have their scores sent to the University.

Credit for courses and advanced placement are given for high achievement on certain tests. Questions about the UWM policy on the AP examinations may be directed to the Department of Admissions and Recruitment, (414) 229-2222, or check online at www.advancedplacement.uwm.edu.

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**College Level Examination Program (CLEP)**

CLEP is a series of examinations that allow individuals to earn college credit for what they already know regardless of where they learned it. CLEP is the most widely accepted credit-by-examination program in the United States.

CLEP exams are computer-based and are composed of multiple-choice questions. Candidates receive an instant official score report following completion of the exam. An exception to this is the College Composition exam, which includes two mandatory essays.

CLEP granting policies vary from college to college. A list of examinations and registration information can be found at www.cleptesting.uwm.edu.

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**International Baccalaureate**

The International Baccalaureate (IB) program is a rigorous pre-university course of study that meets the needs of highly motivated and academically gifted secondary school students. Examinations are offered for study at a "Higher" level (minimum 240 teaching hours) and at a "Standard" level (minimum 150 teaching hours). Each examination is graded on a scale of 1 (minimum) to 7 (maximum).

International Baccalaureate students who enroll at the University of Wisconsin-Milwaukee are generally awarded three credits for a score of 5, 6, or 7 on the "Standard" level exams. Three credits are also generally awarded for a score of 4 on the "Higher" level exams. Students who earn a score of 5, 6, or 7 on a "Higher" level exam are generally awarded 6 credits. Those who are awarded the full diploma receive 3 additional credits. Contact the Registrar's Office in Mellencamp 212, (414) 229-3800, with questions regarding the IB policy.

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**African American Student Academic Services (AASAS)**

*Bolton Hall, Room 170*
Housed in the College of Letters & Science, the Office of African American Student Academic Services (AASAS) is a campus-wide support program that is committed to helping African American students achieve their educational goals. AASAS provides to enrolled and prospective African American students academic and supportive services that include recruitment, help with admission and financial aid forms, academic advising and assistance, personal counseling, social programming, and peer mentoring.

**American Indian Student Services (AISS)**

*Bolton Hall, Room 195*
*(414) 229-5880; fax (414) 229-5930*

[www.uwm.edu/aiss](http://www.uwm.edu/aiss)

Helping American Indian students reach their educational objectives by providing assistance from application to graduation is the primary goal of American Indian Student Services. Administered by the College of Letters & Science, AISS is a strong, campus-wide support program committed to helping admitted and potential American Indian students connect to campus and community networks. The AISS staff members make every effort to give students a home away from home by providing a student lounge and computer lab and by coordinating seasonal events, student fundraisers, and various social activities. AISS also plans campus sociocultural and educational programs, such as an annual powwow and American Indian Awareness week. Support services include recruitment, pre-college visits, academic advising and personal counseling, help with the admission and financial aid processes, liaison between campus and tribes, peer mentoring, a computer lab, and cultural enrichment programming.

A fundamental tenet of AISS's basic philosophy is the belief that getting an education is important not only for individual students, but also for the growth, health, and future of American Indian tribes/nations.

**American Indian Studies (AIS)**

*Bolton Hall, Room 706*
*(414) 229-4259*

[www.uwm.edu/Dept/AIS](http://www.uwm.edu/Dept/AIS)

American Indian Studies (AIS), based in the College of Letters & Science, is an interdisciplinary program that cooperates with University departments to offer courses designed to acquaint all students with the American Indian heritage. The AIS Program also is involved with research, writing, and publication related to American Indian Studies as an academic discipline. Students should consult the *Schedule of Classes* or the AIS coordinator, Donald Green, for more information on course offerings. Interested students may earn an interdisciplinary major in American Indian Studies.

**Audit Program**

*Mellencamp Hall, Room 212*
*(414) 229-6571*
Expand your horizons . . . without tests or grades. If you would like to take a course for information or enrichment without fulfilling all the course requirements, consider auditing a course. An auditor does not receive a grade or credit for the course, and in most cases is not expected to take major exams or submit projects or term papers required of students enrolled for credit. Requirements may vary, so if you want to audit a course you should discuss with the instructor such factors as attendance, course work standards, and other expectations before enrolling, or no later than the first week of class.

No degree credit is awarded for courses taken on an audit basis, and such courses do not count in determining the minimum credit load required for student athletes, or in determining eligibility for financial aid or other benefits. Audited courses may be counted in determining maximum credit load a student may carry. Each department has restrictions on courses open to auditors. Courses not open to auditors are annotated in the Schedule of Classes.

Students will pay lower fees for audited courses (approximately 30% for Wisconsin residents or 50% for nonresidents). Residents of Wisconsin who are 60 years of age or older as of the first day of classes of the term for which enrollment is desired may audit classes for free, subject to space availability and instructor approval. For information about auditing courses, please contact an advisor from the Department of Admissions and Recruitment at (414) 229-2222 or www.contact.uwm.edu to set up an appointment.

Cultures & Communities Program

Holton Hall, Room G36
(414) 229-5960
www.cc.uwm.edu

The Cultures and Communities (CC) Program is an alternative to the standard track for completing UWM's General Education requirements. Students who choose the CC option fulfill their requirements by taking select classes that focus on multicultural understanding, community engagement, service learning, environmental and global awareness, and the appreciation of artistic, intellectual, and social diversity. CC students earn a Certificate (equivalent to an interdisciplinary minor) that documents their advanced knowledge in these areas and that serves as excellent preparation for graduate study or most any career in today's multicultural, globalized society.

The CC program is designed to work with any major and is open to all undergraduate students. A list of CC courses may be found online at www.cc.uwm.edu. For additional information, see the program requirements in the College of Letters & Science section of this catalog or contact the CC Program office.

English as a Second Language (ESL) Writing Courses

Curtin Hall, Room 678
(414) 229-6180

UWM students who learned another language before learning English can complete the English portion of their General Education Requirement (GER) by taking English as a Second Language (ESL) writing courses instead of English writing courses designed for native speakers of English. In the ESL writing courses, students learn not only what native speakers of English learn in college writing courses, but also the English language skills that non-native speakers of English need to succeed in their university studies.

The ESL-PIC test (not the EPT) determines placement in ESL writing courses. Contact the Testing Center
Evening Degree Programs

Vogel Hall, 3253 North Downer Ave.
(414) 229-2222

Students can earn a baccalaureate degree in a number of majors by attending UWM exclusively during the evening. For more information, please visit www.eveningdegree.uwm.edu. At present, these majors include accounting, anthropology, communication, community education, criminal justice, economics, educational studies, English, finance, human resources management, information resources, management information systems, marketing, mathematics, organizational administration, political science, production and operations management, social work, and Spanish. Many additional majors and programs, such as engineering, can be completed primarily during evening hours.

Freshman Seminar Program

Holton Hall, Room G16/18
(414) 229-6041

www.fs.uwm.edu

Administered by the College of Letters & Science, the Freshman Seminar Program affords freshmen the opportunity to participate in a small learning community during their first year at UWM, helping to ease the transition to college. The program offers a range of seminars to students of all ability levels.

Limited to 20 first-year students, each Freshman Seminar provides a unique opportunity for students to get to know their professors and fellow students. In this small setting, the professor serves as a mentor, coaching and helping students to achieve success in their first year. Freshman Seminars emphasize the development of collaboration, teamwork, written and oral communication skills, creative and analytical thinking, and university literacy.

Seminars are offered in a wide variety of interest areas. Course titles in recent semesters have included Forensic Chemistry: Solving Crime With Science; How to Think Like a Psychologist; Voyages in Cyberspace; and The World of Your Parents and Grandparents: American Culture in the 1950s. Most freshman seminars are offered for three credits and can be applied to degree requirements. See the Schedule of Classes for a list of Freshman Seminars taught in this current semester.

In addition to offering seminars, the Program fosters a sense of community by offering students the opportunity to apply for peer mentoring positions and by sponsoring other events.

For more information, visit the Freshman Seminar website at www.fs.uwm.edu or call (414) 229-2641.

Honors College

Honors House, Room 154
(414) 229-4658
The Honors College is open to qualified undergraduates in all UWM schools and colleges. The college offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences. It is appropriate particularly for students who want more engaged and writing-intensive studies or who are preparing for graduate, law, medical, or professional school.

Students receive the degree designations "Honors" or "Honors with Distinction" on their diplomas and transcripts.

Admission

Students pursuing their first degree can join the Honors College as freshmen, continuing, or transfer students. Freshmen are admitted based upon a holistic review of their UWM application and high school record. Continuing UWM and transfer students should have a cumulative GPA equivalent to their academic standing (see below) and have met the University English requirement by testing out of, or receiving a B-, or better, in English 102. All students new to Honors must meet with an Honors advisor to discuss how the Honors College can be integrated into their academic plans.

Continuing in the Honors College

Honors College students must meet the following cumulative GPA/enrollment criteria:

1. To continue in the Honors College, students must maintain the following minimum grade point averages for work done at UWM by the beginning of their year in school:
   - Freshman (after first semester) 3.0
   - Sophomores 3.3
   - Juniors 3.4
   - Seniors/to graduate with an Honors degree 3.5
2. Students admitted as new freshman who need to complete the University English Requirement must complete HONORS 200 in the first semester following their completion of the English Requirement.
3. Students who do not take Honors courses for two consecutive semesters will be considered “inactive” and dropped from the Honors College.

Graduating with Honors

All UWM Undergraduate Schools and Colleges now offer the Honors Degree, a special diploma awarded to students who complete Honors College requirements. Students who complete a Senior Thesis or Project, or complete two semesters of Research in Honors, receive a special “Honors with Distinction” degree. Graduating with an Honors Degree provides convincing evidence of outstanding academic achievement, a valuable accomplishment students can note on resumes and graduate school applications. To graduate with Honors, students must achieve a cumulative GPA of at least 3.5 and accumulate at least 21 Honors credits.

Notification of Ineligible Students

At the end of each semester, the Honors College will review students’ academic records to determine whether they meet
the criteria for continuation in the program. The Honors College will notify by mail all students who fail to meet these criteria, stating that they no longer are eligible to enroll in Honors classes. If these students already are enrolled in Honors classes for the next semester, they will be dropped administratively.

Regaining Honors College Eligibility

1. Students who become ineligible by failing to maintain the minimum grade point average may apply for reinstatement if they subsequently raise their grade point average to the required level.
2. Students who become ineligible after two consecutive semesters with no Honors courses may apply for reinstatement.
3. In either case, students applying for reinstatement must indicate in writing how they propose to complete Honors requirements before graduation.

Graduation Requirements

An Honors degree requires 21 Honors credits and at least a 3.5 cumulative grade point average at graduation. All Honors credits count toward the total credits required for graduation. Students must earn a grade of B- or better to receive Honors credit for a course. At least 12 of the 21 Honors credits must be earned at UWM, with at least 9 credits in upper-level Honors seminars at UWM.

Students also may choose to graduate with "Honors with Distinction." The designation "Honors with Distinction" is awarded to students who, as part of their Honors requirements, successfully complete 6 credits in "Research in Honors," a "Senior Honors Project" or a "Senior Honors Thesis." This designation will appear on the students' transcripts. Students complete the required credits through enrollment in HONORS 686, 687, or 689 (see below).

Course of Study

Honors Seminars. Freshmen and sophomores entering the Honors College must complete HONORS 200, earning a grade of B- or better, before taking other honors courses (except for honors calculus, which can be taken concurrently). Following HONORS 200, which may be repeated once with change in topic, students with sophomore standing or above may take departmental Honors seminars at 3H credits each.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind: (Subtitle)</td>
<td>3H</td>
</tr>
<tr>
<td>MATH 221</td>
<td>Honors Calculus I</td>
<td>5H</td>
</tr>
<tr>
<td>MATH 222</td>
<td>Honors Calculus II</td>
<td>5(1)H</td>
</tr>
<tr>
<td>AFRICOL 381</td>
<td>Honors Seminar: (Subtitle)</td>
<td>3H</td>
</tr>
<tr>
<td>ANTHRO 381</td>
<td>Honors Seminar: (Subtitle)</td>
<td>3H</td>
</tr>
<tr>
<td>ARTHIST 381</td>
<td>Honors Seminar: (Subtitle)</td>
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<td>ATM SCI 381</td>
<td>Honors Seminar: (Subtitle)</td>
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<tr>
<td>BIO SCI 380</td>
<td>Honors Seminar: (Subtitle)</td>
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<td>CHEM 381</td>
<td>Honors Seminar: (Subtitle)</td>
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<td>CLASSIC 381</td>
<td>Honors Seminar: (Subtitle)</td>
<td>3H</td>
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<tr>
<td>COMMUN 380</td>
<td>Honors Seminar: (Subtitle)</td>
<td>3H</td>
</tr>
<tr>
<td>COMPLIT 381</td>
<td>Honors Seminar: (Subtitle)</td>
<td>3H</td>
</tr>
<tr>
<td>ECON 381</td>
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<td>HONORS 351</td>
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<td>HONORS 352</td>
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<td>ITALIAN 383</td>
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<td>WMNS 381</td>
<td>Honors Seminar in the Humanities: (Subtitle)</td>
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With the exception of HONORS 200 and 380, variable content seminars (those marked "Subtitle") are retakable with a change in topic to a maximum of 9 credits. HONORS 200 and 380 are retakable once.

**Advanced Independent Study (3H cr):** Independent study courses offered through departments. Course numbers vary. Prerequisite: junior standing.

**HONORS 685 (Honors Tutorial; 3H cr):** An independent study course for students who cannot arrange independent study through one of the departments. Prerequisite: junior standing.

**HONORS 686 (Research in Honors; 3H or 6H cr):** Students assist a faculty member in his/her research and then design and complete an original and major research project under the supervision of a faculty advisor. Students who complete 6
cr are awarded “Honors with Distinction” on their transcripts. Prerequisite: junior standing and 9H credits.

*HONORS 687 (Senior Honors Project; 3H cr; retakable to a max of 6H cr): The Senior Honors Project is intended for students in majors in which an Honors Thesis is not appropriate. It consists of a performance, exhibit, musical composition, or technical/professional project completed under the supervision of a faculty advisor. Students who complete 6H cr are awarded “Honors with Distinction” on their transcripts. Prerequisite: junior standing.

*HONORS 689 (Senior Honors Thesis; 6H cr over two semesters): The Senior Honors Thesis allows students the opportunity to write an extended paper (usually 50-75 pages) reflecting independent research conducted in some aspect of their major field of study under the supervision of a faculty advisor. Students who complete the thesis are awarded “Honors with Thesis” on their transcripts. Prerequisite: senior standing.

*Students may not do both a Senior Thesis and a Senior Project.

Graduate Courses. Courses at the 700 level and above may be counted toward the Honors College graduation requirements. This option normally is open only to seniors in the program who meet the necessary prerequisites. Permission for an Honors student to take a graduate course must be obtained from the instructor of the course, the department chair, the dean of the appropriate school/college, and the Honors College director.

Other Options. A maximum of 9H credits earned at other universities may be applied to the Honors College graduation requirements with the director’s approval. Honors credits also may be earned through approved Study Abroad Programs.

Courses

Honors College (HONORS)

Administration

TBA, Director

Robin Weigert, Assistant Director
University of Wisconsin-Milwaukee

International Study

Pearse Hall, Room 166
(414) 229-5182

www.uwm.edu/cie/studyabroad.cfm

The Center for International Education (CIE) provides numerous opportunities for UWM students to broaden their world perspective through study abroad. Short (six weeks or fewer), semester, and academic year programs are offered in various regions of the world, including Asia, Latin America, Africa, the British Isles, and Europe. Programs are available for all undergraduate majors.
CIE's Study Abroad library is the place to begin one's journey overseas. The library provides updated materials on study abroad programs. It also contains information on international internships, service-learning opportunities, the Peace Corps, volunteering abroad, and work abroad. After doing initial research, students can talk with a peer advisor or attend a Study Abroad workshop. Study Abroad advisors also are available to assist with the application process, instruct students on credit transfer procedures, and help identify different options to finance a study abroad program.

UWM students have studied in England, France, Germany, Ghana, Chile, Poland, Ireland, China, Japan, and Mexico, among many other countries. Upon their return, they universally comment that this educational experience changed their lives.

Military Science Program

- Army ROTC
- Air Force ROTC
- Naval ROTC

Army ROTC

UW-Milwaukee students have the opportunity to participate in the Army Reserve Officers Training Corps (AROTC) at Marquette University. The AROTC program provides university students with leadership, management, technical, and tactical skills that will enable them to start their journey as commissioned officers in the United States Army, Army Reserve, or Army National Guard.

Army ROTC is not a major field of study. It is a program in which students pursue a baccalaureate degree of their choice and take AROTC courses in military-oriented subject matter. AROTC provides a general knowledge of the contemporary role of the Army in support of national objectives and a practicum in management and leadership skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program offers competitive two-, three-, and four-year scholarships to qualified students. Currently, the scholarships offered for UWM students cover full tuition and fees or room and board, $1,200 a year for books, and a $300-$500 monthly stipend.

General Eligibility. To be eligible for an AROTC scholarship, students must:

- be a United States citizen;
- be a full-time student;
- have no major civil convictions;
- not be a conscientious objector;
- be medically qualified;
- have a minimum 2.5 GPA; and
- have a minimum ACT score of 19 or SAT score of 950.

The Army ROTC program is divided into two parts - the basic course (freshman and sophomore years) and the advanced course (junior and senior years). The freshman year course currently is being offered at UWM; the remainder of the courses are offered at Marquette University. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

Basic Course. In the basic course, cadets learn basic military skills and receive the foundation for leadership and management skills that are expanded during the advanced course. The basic course is open to all full-time UWM
Advanced Course. During the advanced course, cadets learn more extensive leadership and management skills, and they are placed into various leadership positions in the battalion. Cadets also develop skills and attributes that are essential for all commissioned officers in the U.S. Army.

In addition to completing the military science courses, advanced-course students are required to attend the Advanced Leadership Course at Fort Lewis, Washington, during the summer between the junior and senior years. During this five-week camp, cadets are expected to apply all of the skills that they have learned in the AROTC program. In addition, cadets are offered the opportunity to compete for a chance to attend Airborne School, Air Assault School, or Cadet Troop Leadership Training (CTLT). CTLT is an "internship" in which cadets have a chance to see what a Second Lieutenant does on an active duty Army post.

To qualify for the Advanced Course, students must accomplish one of the following:

- complete the two years of the basic course;
- attend the Basic Leaders Course, a six-week camp at Fort Knox, Kentucky; or
- complete U.S. Army Basic Training or its equivalent.

Field Exercises: Once a semester, all of the cadets in the program go to Fort McCoy, Wisconsin, to practice all of the skills that they have learned. Advanced course cadets also are given the opportunity to improve their leadership skills by being placed in various leadership positions leading other cadets.

Physical Training: Three times a week, cadets are required to attend physical training (PT). During PT, cadets do physical activities such as push-ups, sit-ups, and running. PT currently is conducted at both UWM and Marquette University.

For more information about enrolling in the Army ROTC program, contact army-rotc@uwm.edu or the Department of Military Science at Marquette University, (414) 288-7195, or www.marquette.edu/rotc/army.

Air Force ROTC

UWM students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers three- and four-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course.

General qualifications:

- be a full-time student;
- be a United States citizen (for scholarship appointment);
- be in good physical condition;
- be of good moral character;
- for pilot or navigator training, fulfill all commissioning requirements before age 29;
- for scholarship recipients, fulfill all commissioning requirements before age 31; and
- for non-scholarship students, fulfill all commissioning requirements before age 31.
General Military Course. The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

Field Training. AFROTC Field Training is offered during the summer months at Maxwell Air Force Base, Alabama, and provides leadership and officer training in a structured military environment. Major areas of study include physical training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

Professional Officer Course. The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a nontaxable subsistence allowance per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

Leadership Lab. Leadership Lab is a cadet-centered activity. It is largely cadet planned and directed, in line with the premise that it provides leadership training experience that will improve a cadet’s ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information, and other services that will increase the performance and motivation of other cadets.

AFROTC College Scholarship and High School Scholarship Programs. While participating in AFROTC, scholarship students receive a stipend per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:

- be a U.S. citizen;
- be at least 17 years of age on the date of enrollment and under 31 years of age on December 31 of the estimated year of commissioning;
- pass an Air Force physical exam;
- be selected by a board of Air Force officers;
- have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious objectors); and
- maintain a 2.5 grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year. Information on Air Force ROTC and applications for Air Force scholarships is available at [www.AFROTC.com](http://www.AFROTC.com). Scholarship applications will not be accepted after December 1 of the year before entering college.

For more information, contact the Department of Aerospace Studies at Marquette University, (414) 288-7682.

Naval ROTC
The Naval Science Department at Marquette University administers the Naval Reserve Officers Training Corps (NROTC) program. Graduates who complete all requirements will receive reserve commissions and serve on active duty in the Navy or Marine Corps with a minimum three-year commitment for non-scholarship students, and five-year commitment for scholarship students.

Scholarships

NROTC offers two-, three-, and four-year scholarships to qualified applicants. Four-year scholarships are awarded on a national level to qualified high school applicants (visit www.nrotc.navy.mil for more information and to apply). Two- and three-year scholarships are awarded to students who have completed at least one, but not more than four, terms of college while a member of the NROTC Unit. Two-year scholarships for students who are entering their junior year and have not previously been enrolled in the NROTC program also are available.

Students entering UWM with a four-year scholarship, earned on a competitive basis while still in high school, will receive full tuition, fees, laboratory expenses, a stipend for books, and a subsistence allowance of $250 to $400 per month, depending on class year. Necessary uniforms and textbooks for required Naval Science courses are issued as well.

Basic Requirements:

- Be a US citizen;
- Not less than 17 years old by Sept. 1 of year starting college, and no more than 23 on June 30 of that year;
- Be of good moral character;
- Be a high school graduate;
- Be 27 or younger by June 30 of the year you will graduate;
- Be physically qualified by Navy/Marine Corps standards; and
- Achieve qualifying scores on the SAT or ACT: ACT: 22 verbal, 22 math (22 composite for Marine Corps);
  SAT: 530 verbal, 520 math (1000 composite for Marine Corps).

Students not on scholarship can still participate in the NROTC College Program. They receive uniforms and Naval Science textbooks, and $350 and $400 per month during their junior and senior years, respectively. All College Program students are eligible to compete for Naval Education and Training Command scholarships. Students are selected on a competitive basis after completing at least one term as an NROTC College Program student. Selection boards meet semi-annually in March and June to consider students based on their most recent term. Students may receive scholarship benefits for two or three academic years. Once selected, the students receive the same benefits and incur the same active duty requirements as students in the four-year scholarship program.

The Naval Science Department teaches Naval Science courses and supervises a midshipman-run drill program that instills leadership skills and professional development in all members of the midshipman battalion. All midshipmen are required to register for and participate in this two-hour weekly drill period, which occurs at the Marquette University Gymnasium. One Naval Science class each term is also required, with the exception of Nurse Corps and Marine Corps Options. Students enrolled in the program from UWM attend Naval Science classes at Marquette as "cross-town" students, while the rest of their major is completed on the UWM campus. Midshipmen on scholarship or in advanced standing status also are required to attend a four- to six-week training period each summer. This summer training introduces midshipmen to the fleet and to the life of a junior Naval Officer. The summer training period also provides an orientation to each of the different warfare specialties available upon graduation (aviation, surface, submarine, and the Marine Corps).

All Navy Option scholarship students are required to complete one year of calculus by the end of their sophomore year, and one year of calculus-based physics by the end of their junior year. Navy Option college program students must complete one year each in mathematics and physical science. One course on World Cultural Awareness, one year of English, and either an American Military History or National Security Policy course also are required for all NROTC students.

All scholarships are awarded on the basis of merit and personal qualifications. Neither a Parents' Confidential Financial
Statement nor a standard FAF is required for consideration for Naval ROTC scholarships.

For more information, contact the Department of Naval Science at Marquette University, (414) 288-7076, or visit our website at www.Marquette.edu/rotc/navy.

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**Off-Campus Courses**

UWM offers a variety of courses beyond the boundaries of its East Side campus. An extensive program of off-campus instruction makes regular UWM courses available in community locations throughout the Milwaukee area and on other University of Wisconsin System campuses.

**Education Outreach Activities.** The School of Education offers off-campus courses at the undergraduate and graduate levels. Information on the School's courses, workshops, and other off-campus educational activities may be obtained from the Education Outreach Office, Enderis Hall, Room 579, phone (414) 229-5255.

**Online and Blended Learning.** UWM offers an extensive array of fully online and "blended" (partially online/partially in-person) courses and programs at both the graduate and undergraduate levels. For more information, go to www.online.uwm.edu.

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**Office of Undergraduate Research**

*Bolton Hall, Room 192*

(414) 229-2666

[www4.uwm.edu/our](http://www4.uwm.edu/our)

The Office of Undergraduate Research is a centralized location for undergraduates seeking on-campus research opportunities and faculty members seeking enthusiastic, motivated undergraduate students with whom to collaborate. OUR programs that promote this collaborative work are the Undergraduate Research Opportunity Program (UROP), which pairs students with faculty research mentors for academic credit, and the Support for Undergraduate Research Fellows (SURF) Program, which enables faculty research mentors to co-apply with top-performing students to provide an hourly wage for the student’s work on a faculty-led research project.

Also included under the OUR umbrella of offerings are travel grants to support undergraduates who are presenting their work at national conferences and the UR@UWM Summer Research Program for first-year students. Interested students can apply to get involved at the website above or can stop by the OUR office in Bolton 192 for more information.

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**The Roberto Hernández Center (RHC)**

*Bolton Hall, Room 183*

(414) 229-6156

[www.uwm.edu/rhc](http://www.uwm.edu/rhc)

The Roberto Hernández Center is committed to increasing the presence of Latinos at UWM, specifically students, faculty and academic staff. One of its main goals is to provide effective advising and mentoring to Latino students to foster their retention and to guide them to completion of their degree requirements. The Center is committed to developing and expanding Latino community outreach programs through interactions and partnerships with other organizations. The RHC also seeks to promote and validate research on Latino culture.
The RHC houses two programs that serve Latino students on campus: student recruitment and community outreach, and Advising and Academic Services. The RHC also assists the College of Letters & Science in coordinating the Latino Studies Certificate Program.

Advising and Academic Services can help you with admission to the University and to register for classes, apply for scholarships, and complete financial aid forms. AAS can also help you obtain tutorial assistance, locate services for solving academic or personal problems, find organizations and programs on campus to support your goals, and help you learn more about your career opportunities.

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**Institute for Service Learning (ISL)**

*Holton Hall, Room G30*

*(414) 229-2348*

[www.uwm.edu/community](http://www.uwm.edu/community)

Service learning programs bring students out of their classrooms and into the community for experiences that offer them a chance to enrich their academics while making a meaningful contribution to community organizations. Through their work, students gain a deeper understanding of course content along with a greater awareness of societal needs and civic responsibility.

Service learning courses are available for all undergraduate students. For additional information, please contact the ISL office or visit the website.

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**Latino Studies Certificate Program (LSCP)**

*Enrique Figueroa, Coordinator*

*Bolton Hall, Room 272*

*(414) 229-6156*

The Latino Studies Certificate Program (LSCP) provides the opportunity for students to focus on Latino issues in the United States. The program utilizes an interdisciplinary approach to examine the experiences, cultures, and social conditions of Latinos. In consultation with the program advisor, Latino Studies students select courses from the humanities, social sciences, and education. Many Latino Studies courses satisfy other university and college requirements. Students who have completed Latino Studies courses prior to program enrollment are granted appropriate credits toward satisfying certificate requirements. Upon completion of all course requirements, students are issued a Certificate in Latino Studies by the College of Letters & Science, and a notation stating that the program has been completed is added to their transcripts.

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**Southeast Asian-American Student Services (SAASS)**

*Bolton Hall, Room 160*

*(414) 229-5282*

*(414) 229-3921*

Administered by the College of Letters & Science, Southeast Asian-American Student Services (SAASS) provides academic support for Southeast Asian (Cambodian, Hmong, Laotian, and Vietnamese) heritage students attending UWM. Support services include academic advising, admissions and financial aid procedures, tutorial referrals, career
information, cultural enrichment, and personal support. To serve students effectively, SAASS works closely with faculty/staff, students, and Southeast Asian community organizations in Milwaukee and Wisconsin.
ADMINISTRATION

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Mark J. Bradley
John R. Drew
Tony Evers
Michael J. Falbo (President)
Margaret Farrow
Tim Higgins
Tracy Hribar
Chad Landes
Edmund Manydeeds
Regina Millner
Janice Mueller
Drew Petersen
Charles Pruitt
Gary Roberts
José F. Vásquez
David G. Walsh
Gerald Whitburn

University of Wisconsin System Administration
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David Miller, Senior Vice President for Administration & Fiscal Affairs
Mark Nook, Senior Vice President for Academic & Student Affairs
Steve Wildeck, Interim Vice President for Finance
David Brukardt, Acting Executive Director of Communications and External Relations

The University of Wisconsin-Milwaukee Administration
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Johannes Britz, Provost & Vice Chancellor, Academic Affairs
Michael Laliberte, Vice Chancellor, Student Affairs
Tom Luljak, Vice Chancellor, University Relations & Communications
Robin Van Harpen, Vice Chancellor, Finance & Administrative Affairs
Patricia Borger, Vice Chancellor, Development & Alumni Relations
Joan Prince, Vice Chancellor, Global Inclusion & Engagement

Deans of Schools and Colleges
Robert Greenstreet, School of Architecture and Urban Planning
Scott Emmons, Peck School of the Arts
Timothy L. Smunt, Sheldon B. Lubar School of Business
Barbara Daley (Interim), School of Education
Brett Peters, College of Engineering & Applied Science
David Garman, School of Freshwater Sciences
Marija Gajdardziska-Josifovska, Graduate School
Chukuka S. Enwemeka, College of Health Sciences
Administration Policies

- Administration Policies
- UWM Equal Opportunity Policy
- Hate/Bias Incident Reporting
- University Policies and Programs Concerning Illicit Drug and Alcohol

ADMINISTRATIVE POLICIES

The University of Wisconsin-Milwaukee is an equal opportunity, affirmative action institution, and does not discriminate on the basis of race, sex, color, creed, national origin, disability, or any other protected status recognized by Wisconsin or federal law. In 1990, s. 36.12, Wisconsin Statutes, was enacted, which provides as follows: No student may be denied admission to, participation in or the benefits of, or discriminated against in any service, program, course or facility of the (UW) System or its institutions or centers because of the student’s race, color, creed, religion, sex, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital status, or parental status.

University policies also prohibit harassment or retaliation against complainants on any of these bases. These policies are in compliance with all relevant Wisconsin and federal laws, rules, and regulations.

Questions about the application of any of these policies, or complaints about violations, may be directed to the appropriate admitting or employing office, or to the campus Office of Equity/Diversity Services, Mitchell Hall, Room 359, or phone (414) 229-5923.

An information booklet on the UWM Disciplinary Guidelines and the appropriate sections of the Wisconsin Administrative Code covering conduct on University lands and student disciplinary procedures is available in the lobby of Mellencamp Hall and in several offices, including the Office of the Dean of Students, Mellencamp Hall, Room 118. Board of Regents rules require adherence by students and others present on the campus. Failure to comply with these rules may subject students to disciplinary action and to civil forfeitures. State of Wisconsin Statutes and Federal Law also apply on the campus of the University.

Under the provision of the Family Educational Rights and Privacy Act of 1974, a student is entitled to review the education records related to the student that the University maintains. A student may request a hearing regarding any alleged inaccurate, misleading, or inappropriate information contained in the record.

The University may not disclose information from a student’s record to a third party unless the student gives consent, or unless permitted to do so by the Family Educational Rights and Privacy Act of 1974. A student may contact the Undergraduate Records Office or the Office of the Dean of Students, both in Mellencamp Hall, for further information.

You may restrict the release of your address and phone number and other limited information by checking a box on your registration form. If you do this, your address and phone number will not appear on most mailing lists used by UWM student organizations, campus departments, or on mailing lists obtained from UWM by non-University groups.

The various academic units at UWM have set up appeals and grievance procedures. Students may avail themselves of these procedures by contacting a department chair, the dean’s office of the school or college from which the course was taken, or the Office of the Dean of Students.
UWM Equal Opportunity Policy

It is the policy of the University of Wisconsin-Milwaukee to provide equal opportunity and prohibit discrimination and harassment for its employees and students in all programs, activities, and employment. UWM is committed to actively implement all federal and state equal opportunity and affirmative action laws, executive orders, policies, plans, rules, and regulations.

UWM's Discriminatory Conduct Policy (Including Sexual Harassment) (S-47) defines discrimination as conduct that (1) adversely affects any aspect of an individual's employment, education, or participation in activities or programs at UWM; and (2) is based on one or more characteristics of the individual that are protected under federal, state, or local laws. Characteristics that are protected under federal, state, or local law (protected statuses) may include age; ancestry; arrest or conviction record; color; disability; gender identity/expression; identity as a veteran, disabled veteran, or Vietnam veteran; marital status; membership in the National Guard, state defense force or any other reserve component of the military forces of the United States or this state; national origin; pregnancy; political affiliation; race; religion; sex; sexual orientation; or use of lawful products off the premises during non-working hours (e.g., smoking cigarettes).

Harassment is a form of prohibited discrimination. UWM defines harassment as conduct that (1) is of any type (oral, written, graphic, or physical); (2) is directed towards or against a person because of the person's protected status (as listed above); and (3) unreasonably interferes with the individual's work, education, or participation in activities or programs at UWM, or creates a working or learning environment that a reasonable person would find threatening or intimidating. Sexual harassment includes unwanted sexual advances, requests for sexual favors, and other verbal and physical conduct of a sexual nature.

Speech or expressive behavior (e.g., use of visual, recorded, or written materials) used in the context of an instructional setting may be found to constitute harassment only if the speech is persistent, pervasive, and not germane to the subject matter, or so singularly severe as to create a hostile environment. Protected Expressive Behavior in an instructional situation is explained in UWM Selected Academic and Administrative Policies No. S-44, Public Expression of Opinion.

In addition, the University prohibits retaliation against individuals who engage in protected activities under the policy. Retaliation is defined as employment or academic decisions that are made because a student, employee, or applicant for employment has made a complaint, assisted with or served as a witness in an investigation, or instituted proceedings alleging discrimination.

UWM maintains a written affirmative action plan in order to meet its commitment to the principles of equal opportunity and affirmative action. The plan is available to all persons for inspection and is on reserve in the University Library and on UWM's website.

To protect the rights of employees and students, numerous grievance procedures have been developed on this campus. Although all grievants are encouraged to resolve complaints by working with the relevant parties and administrators, inquiries involving complaints of discrimination or harassment based on protected class status may be directed to the UWM Office of Equity/Diversity Services, Mitchell Hall 359, (414) 229-5923.

Hate/Bias Incident Reporting

In the last few years, there has been an increased focus on the reporting of hate- and bias-motivated incidents on university campuses across the nation. UWM defines a hate- or bias-motivated incident as any disruptive conduct (oral, written, graphic, or physical) that is against an individual, or individuals, because of their actual, or perceived, race, color, national origin/ancestry, religion, sex, age, disability, sexual orientation, gender identity/expression, veteran and National Guard status, marital status, pregnancy, political affiliation, or arrest/conviction record. If you believe the incident involves criminal conduct, please call 911 or 9-911 (UWM campus police) from a UWM phone, in addition to completing the Hate/Bias Incident Reporting Form. You may use this form to report any hate/bias incident that has
University Policies and Programs Concerning Illicit Drugs and Alcohol

Consistent with the federal Drug Free Schools and Communities Act, the University of Wisconsin-Milwaukee (UWM) maintains a comprehensive alcohol and other drug abuse prevention program. This includes interventions that target at-risk individuals, programs that target the student body as a whole, and environmental-level strategies that impact the college and surrounding community. UWM prohibits the unlawful possession, use, distribution, manufacture, or dispensing of illicit drugs and alcohol on university property or as part of university activities. Each semester, students receive information that describes pertinent laws, rules, and sanctions, as well as the health effects of abuse, and a list of treatment resources.
Undergraduate Admission: General Information

If you wish to apply as a degree candidate (freshman, reentry or transfer student), visit the University of Wisconsin System application website at [https://apply.wisconsin.edu](https://apply.wisconsin.edu). You will need to supply the necessary documents like test scores and transcripts separately. We will accept transcripts and test results submitted electronically from a vendor or testing agency. You will be notified of any additional materials needed to complete your application and can track the receipt of these documents as well as the progress of your application review online via PAWS (Panther Access to Web Services) at paws.uwm.edu, including what we still need from you to make an admission decision.

If you wish to apply as a non-degree or summer guest student, you also may use the electronic applications available at [https://apply.wisconsin.edu](https://apply.wisconsin.edu). If you require a paper application, you can download a PDF of any applications from this site.
Students may get in touch with us at www.contact.uwm.edu for easy access to an online information request form, phone, email, live chat or social media. We are able to respond to any questions about visiting UWM, the application process, materials required, which application to submit, or any other concerns you might have.

**Freshman Admission Policy Statement**

UWM will consider applicants who present evidence of appropriate preparation and potential for intellectual development. Both academic and non-academic factors will be assessed in an individualized, comprehensive applicant review. Academic factors considered include high school graduation or the equivalent, completion of an appropriate college preparatory curriculum, and evidence of academic ability and readiness based on the applicant's high school record and performance on standardized tests. Relevant non-academic factors include characteristics or experiences that will contribute to UWM's diversity, support the university's educational mission, and provide additional evidence of the applicant's academic potential.

**Freshman Admission Standards**

Freshman applicants will typically demonstrate an appropriate level of preparation and potential by providing evidence of the following:

1. **High school graduation or its equivalent**

   Graduation from a recognized high school or its equivalent (e.g., high school equivalency certificate or a diploma based on the GED or Wisconsin High School Equivalency Examination) is required. All freshman applicants must submit an official high school transcript with their application.

   Those who have completed the General Educational Development or Wisconsin High School Equivalency Examination are required to submit official test results, in addition to ACT or SAT test results, and an official transcript of any high school work they have completed. Applicants who are home-schooled, who have completed an alternative high school curriculum, or whose secondary school credentials are otherwise non-traditional, will be given full consideration for admission but may be required to present additional evidence demonstrating academic preparation.

2. **Completion of an appropriate college preparatory curriculum**

   Satisfactory completion of at least 17 credits (1 credit = 1 year) of high school courses, distributed as shown in the following chart, is the minimum expectation. Additional coursework beyond this minimum level is strongly encouraged and will increase the applicant’s likelihood of academic success at the university. Some academic programs have additional academic preparation requirements.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong></td>
<td>4</td>
</tr>
<tr>
<td>Including at least 3 years of literature and composition.</td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>3</td>
</tr>
<tr>
<td>College prep courses at or above algebra level. Additional math is strongly recommended, particularly for engineering and science majors.</td>
<td></td>
</tr>
<tr>
<td><strong>Natural Science</strong></td>
<td>3</td>
</tr>
<tr>
<td>Including at least 1 year of lab science.</td>
<td></td>
</tr>
<tr>
<td><strong>History/Social Science</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Additional Academic Courses</strong></td>
<td>2</td>
</tr>
<tr>
<td>May be chosen from any of the above areas, foreign language, speech/communication, or other academic areas. At least two</td>
<td></td>
</tr>
</tbody>
</table>
years of foreign language is strongly recommended.

Additional Academic Courses or Other Electives

Chosen from above areas, computer science, fine arts, or other appropriate courses.

Total

3. Evidence of academic ability and readiness as demonstrated by academic performance in high school

All relevant academic factors are considered, including grades and grade point average; high school class rank (if available); choice of curriculum; and strength of the academic program relative to the course offerings available to the student in the high school.

4. Evidence of academic ability and readiness as demonstrated by performance on standardized test

All freshman applicants except those who are age 21 or older the semester they wish to enter UWM must submit official ACT or SAT scores. Students over the age of 21 may submit standardized test scores if they so desire. In some cases, applicants may be asked to undergo additional testing or supply additional materials before an admission decision is made.

5. Additional factors considered

Additional factors will be considered as part of the application review process. These might include, but are not limited to: evidence of leadership, creativity, special talents or abilities; membership in an underrepresented racial or ethnic group; veteran status; involvement in community service; educational or economic disadvantage; evidence of motivation and maturity; or other relevant factors which provide evidence of the applicant’s readiness for university-level study. If we need to obtain additional information from you, we will communicate this to you after the initial review of your application.

Applicants lacking some of the specific academic qualifications listed in sections 1-4 above may be offered admission if, on the basis of other factors, they appear to have a reasonable probability of success.

In some cases, applicants may be offered admission through our Academic Opportunity Center (AOC), a program which provides supportive pre-enrollment counseling, academic advising, and special instructional services specifically targeting students who have academic potential, but whose prior education may not have adequately prepared them for college.

Application Deadlines

UWM begins accepting undergraduate applications on September 15 for the following fall term. For most programs, applications are accepted until the following July 1, but earlier deadlines may apply if enrollment capacity has been reached. Applications for the spring term (classes start in January) are typically accepted until December 1. However, some programs have earlier deadlines and/or additional requirements. See below and check our website for up-to-date information.

It is to your advantage to apply early so that you receive important information as soon as possible, not to mention scholarship consideration.

Variations in Admission Requirements and Deadlines

Architecture and Urban Planning

Admission to the School of Architecture and Urban Planning is selective and competitive. Most Wisconsin residents
admitted to the School will rank at or above the top 40% of their high school graduating class and have a composite ACT score of at least 23 (SAT 1070). Most out-of-state residents rank in the top 25% and have an ACT score of at least 25 (SAT 1150). The application priority date for Architecture and Urban Planning is March 1 (for the subsequent fall term), or November 1 (for the spring term), but earlier application is advised.

Engineering and Applied Science

Admission to the College of Engineering and Applied Science is selective. The primary review factors are the strength and quality of the high school curriculum, high school class rank if available, grade point average, and ACT or SAT results. Well-prepared applicants will have four years of high school mathematics at the level of algebra and above, and four years of natural science including biology, chemistry, and physics. Relevant nonacademic factors are also considered. See the CEAS section of this Catalog for additional specific information.

Nursing

High school science units must include at least one year of high school chemistry. Admission to the pre-nursing program is selective. The application priority date is March 1 for fall applicants. Apply as early as possible; applications will be accepted only until program capacity has been reached.

Peck School of the Arts

- Dance: An audition is required for entry into both the Dance BFA and BA. Audition dates are scheduled during the fall, spring, and summer terms. More information at: www.uwm.edu/psoa/dance.
- Art & Design: The Department of Art & Design requires all incoming students to submit a portfolio for review. The portfolio is required in order to be considered for the Art & Design Incoming Student Scholarship. Portfolio deadlines are October 15 (for spring admission) and March 15 (for summer or for fall admission with consideration for scholarships). More information at: www.uwm.edu/psoa/artdesign/admission.
- Music: Students wishing to enter the UWM Music Department must interview and/or audition for admittance to any of the Music degree programs. You must arrange for an instrument or voice audition in person, online or with a tape/CD submission. More information at: www.uwm.edu/psoa/music/admission.

Application Process

It is strongly recommended that you apply online at https://apply.wisconsin.edu/. Most applicants find it faster and more convenient, and applications are received and processed much more quickly. To apply for admission as a new freshman, refer to Undergraduate Admission: General Information.

For the latest admissions information, visit the UWM website at www.admissions.uwm.edu or call the Department of Admissions and Recruitment at (414) 229-2222.

Four-Year Graduation Guarantee

Many students choose to attend classes part time, but for others, attending full time in order to obtain their degree as quickly as possible is the top priority. If that is your goal, UWM's Four-Year Graduation Guaranty may be for you.

To qualify, students must enter UWM as new freshmen during the fall term and must have appropriate academic preparation and placement test scores. They then sign a contract agreeing to satisfy other specified academic progress requirements while following the prescribed program of study. UWM, in turn, guarantees that students who fulfill these requirements will be able to complete their undergraduate degree within four years of initial enrollment at UWM. This program is available within all of UWM's baccalaureate programs, although specific requirements may vary. Your academic advisor can provide more information about this option. Or, contact the academic advising office of the school or college to which you will be seeking admission.
Special Admission Programs for Students Still Enrolled in High School

The High School Special Student Program and the Youth Options Program are designed to allow qualified high school juniors and seniors to enroll in university courses concurrently with high school classes. Applicants must generally rank in the upper 10 percent of their high school class and have completed an appropriate pattern of academic courses. For further information, contact your high school guidance counselor or the UWM Department of Admissions and Recruitment at (414) 229-2222. You also may want to review the information available on the website at www.earncollegecredit.uwm.edu.

Admission to Pre-professional Programs

Students pursuing pre-professional programs in the School of Architecture and Urban Planning, Peck School of the Arts, Sheldon B. Lubar School of Business, School of Education, College of Engineering and Applied Science, College of Health Sciences, College of Nursing, and Helen Bader School of Social Welfare are admitted directly into those schools and colleges and are advised there. However, admission to a pre-professional program does not guarantee subsequent admission to the professional program or major.

Admission to the professional program/major occurs only after a student has completed the specific pre-professional requirements outlined in the school and college sections of this catalog. Admission to the pre-professional program does not imply or guarantee that a student will be able to enter or complete a professional program/major within any specific time period and, in fact, admission to some professional programs/majors is very competitive. Enrollment in required courses is subject to limitation.

Requirements for employment, licensing, or professional organizations: Students should be aware that some professions and occupations are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records prior to acceptance by the placement site. Students are responsible for obtaining the information necessary to become knowledgeable about special requirements such as these and should plan their studies accordingly.

Transfer Student Admission and Acceptance of Transfer Credit

TRANSFER ADMISSION STANDARDS

Admission to UWM as a transfer student typically requires at least an overall C (2.0 on a 4.0 scale) grade point average on 12 or more transferable credits. However, this is the minimum standard. Some academic programs have higher standards and/or additional requirements (see examples below).

Each transfer application receives a comprehensive review. In addition to reviewing the student's record of post-secondary work for evidence of appropriate academic preparation, other factors considered may include the student's high school record, test scores, grade patterns, and evidence of motivation, maturity and/or other relevant nonacademic information. Under certain circumstances, transfer applicants who do not meet our standard admission criteria may be considered for admission via the Academic Opportunity Center.

Additional Specific Requirements

Transfer admission to the College of Engineering and Applied Science, the School of Architecture and Urban Planning, and the College of Nursing is selective. Many programs in the Peck School of the Arts have audition or portfolio requirements. In addition, admission to many other individual programs/majors is competitive and subject to capacity limitations, with higher standards or additional criteria considered. For more details, check the admission requirements listed for the particular academic program in which you are interested.
International students have additional application requirements; see that section for details.

APPLICATION PROCESS

Apply electronically via the University of Wisconsin System electronic application website at https://apply.wisconsin.edu. If you apply electronically, you will need to submit the necessary supporting documents separately. Transfer applicants must submit, at minimum:

- a completed application form;
- official high school transcript(s);
- official transcript(s) from any post-secondary institution(s) attended; and
- the application fee (if required).

You will be notified of any additional materials needed to complete your application. Complete instructions and information about applicable deadlines are available on the website.

If you are unable to apply online, a PDF may be downloaded from https://apply.wisconsin.edu to print and mail in.

The Registrar’s Office will review your prior college coursework and post your transfer credit equivalencies to your PAWS account. This process can take 2-4 weeks, so it is important that you apply early in order to have this information in time for academic advising and registration prior to your desired term of enrollment (see dates and deadlines below).

Recommended Filing Dates for transfer Students

Recommended Filing Dates

Filing and completing your application for admission (including all transcripts and the application fee) as early as possible is recommended so that transfer students are able to receive an appointment to register for classes at approximately the same time as continuing students. In general, a decision on a complete application is made by the Department of Admissions and Recruitment within 2-4 weeks and transfer credit evaluations are completed within four weeks of the date of admission. Recommended dates by which a completed application should be on file are as follows: February 15 (summer and fall terms) and September 15 (spring term).

Application Deadlines for Transfer Students

Fall term: Applications for most programs are accepted until July 1 (classes start in early September).

Spring term: Applications for most programs are accepted until December 1 (classes start in late January).

Earlier deadlines apply for certain programs and applications received after enrollment capacity has been reached may not be reviewed. The application priority date for Nursing and Architecture and Urban Planning is March 1 (for the subsequent fall term) or November 1 (for the spring term). For Art & Design or Music, apply by March 15 for scholarship consideration. Check our website at www.admissions.uwm.edu for up-to-date information and for applicable deadlines for other terms.

Transfer Credit Acceptance

Credit is generally awarded for relevant and appropriate college-level coursework successfully completed at institutions accredited by a regional accrediting association. Credit also may be awarded for college-level work successfully completed at degree-granting institutions accredited by other national accrediting organizations that are recognized by the Council for Higher Education Accreditation (CHEA), assuming the provisions outlined below also are met. (Foreign institutions must be recognized by the Ministry of Education, or equivalent, of the home country.)
In order for credit to be awarded, courses must typically be similar in nature, level, and content to a course in UWM's undergraduate curriculum, and applicable to one of UWM's academic programs at the baccalaureate level. Credit generally is not awarded for continuing education coursework, or for courses that are remedial, vocational, technical, or doctrinal in nature.

Additional transfer credit may be awarded to students who enter specific programs for which UWM has established articulation agreements, or other program-specific transfer credit agreements, with a partner institution.

Seventy-two (72) credits is the maximum total number of credits that may be awarded for coursework earned at one or any combination of two-year (associate degree level) institution(s).

Credit Transfer from the Wisconsin Technical College System (WTCS)

Students enrolled in the Wisconsin Technical College System who wish to continue their education at UWM may transfer credits toward their bachelor's degree in the following ways:

- Students enrolled in a WTCS liberal arts program (at present, these are offered at Chippewa Valley Technical College, Madison College, Milwaukee Area Technical College, Nicolet Area Technical College, and Western Technical College) may be eligible to transfer up to 72 credits toward the baccalaureate degree.
- Students enrolled at other WTCS programs or campuses may be eligible to transfer some appropriate general education coursework toward the baccalaureate degree.
- There also are many program-specific transfer credit agreements governing acceptance of credit from some WTCS programs. For details, see www.guaranteedtransfer.uwm.edu
- The UWM Department of Admissions and Recruitment maintains an office at the MATC-Milwaukee downtown campus in order to assist students with transfer-related questions. For more specific information, get in touch at contact.uwm.edu for easy access to an online information request form, phone, email, live chat or social media.

For more information about these or other transfer opportunities, students should consult with their Wisconsin Technical College advisor, the UWM Department of Admissions and Recruitment, or the UWM Registrar's Office.

Another helpful resource is the online Transfer Information System (TIS), located at tis.uwsa.edu. TIS shows students how courses can transfer from one public Wisconsin institution to another.

International Student Admission

UWM's Center for International Education is responsible for the admission of international (nonimmigrant) students. In addition, the Center for International Education processes undergraduate applications submitted by U.S. permanent residents with foreign academic work.

Applicants are encouraged to apply online at https://apply.wisconsin.edu/. Application materials are located on the Center for International Education website at www.international.uwm.edu or can be requested via email to isss@uwm.edu. Prospective students may visit the Center for International Education, located in Garland Hall, Room 138, or write to The Center for International Education, International Student and Scholar Services, Garland Hall 138, P.O. Box 413, University of Wisconsin-Milwaukee, Milwaukee WI 53201-0413. Application materials sent via express mail should be addressed to the Center for International Education, ISSS, 2441 E. Hartford Ave., Milwaukee, WI 53211. The telephone number is (414) 229-4846.

Students are encouraged to apply a year in advance of the term in which they wish to enroll at UWM. The length of the application process can vary depending on how quickly the applicant provides all required materials to complete the application. The following materials are required to be considered for admission to UWM.

1. A completed and signed application form.
2. An $84 fee ($44 state-required application fee plus a $40 evaluation fee for applicants with non-U.S. academic
credentials). These fees cannot be waived, refunded, or applied to any other University fee or bill. Fees are subject to change.

3. Original or officially certified copies of all grade reports, transcripts, or marks sheets for all secondary and higher studies undertaken, as well as original or officially certified attested copies of all academic diplomas, certificates, and national or other major examination results. Official records must be submitted in the native language and must be accompanied by an official English translation. Notarized copies are not accepted. Whenever possible, academic records must be sent directly to the Center for International Education from the issuing institution.

All nonnative speakers of English are required to meet the University's English proficiency requirement. Undergraduate applicants must submit an official TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing Service) score that meets the minimum requirements below. Test scores must be received directly from the testing service and must be no more than two years old. TOEFL: 520 (paper-based); 68 (internet-based). IELTS: 5.5.

You can be admitted to UWM if you do not meet the minimum English proficiency requirements. There are two different types of admission with English deficiency:

**Conditional Admission**: If you did not take the TOEFL or IELTS or received a TOEFL score of less than 500 (paper-based)/61 (internet-based) or an IELTS score below 5.0, you can be conditionally admitted to UWM. You will then be required to satisfy one of the following requirements prior to becoming eligible to enroll in academic courses:

1. Submit a TOEFL score of 520 (paper-based)/68 (internet-based) or an IELTS score of at least 5.5.
2. Successful completion of the UWM ESL Immersion program with a grade of B or higher.

**Dual Admission**: If you received a TOEFL score between 500 and 519 (paper-based)/61-67 (internet-based) or an IELTS score of 5.0, you will be admitted to UWM, but you will only be allowed to register for part-time academic courses (maximum of 6 credits). You must also complete part-time ESL courses so that you may meet the minimum English proficiency requirements.

1. Additional departmental requirements may apply. Please contact the International Student and Scholar Services office for more details.
2. International students who require an F or J visa must submit proof that they have adequate financial support to live and study full time at UWM. Updated financial figures can be found at www.international.uwm.edu. Financial verification is required before the University will issue the U.S. government form (Form I-20 or DS-2019) necessary to obtain a foreign student visa or to transfer from another U.S. institution.

**Reentering and Readmitted Students**

Students who have not been enrolled at UWM for more than two semesters must file a reentry application to return to the University. Official transcripts of all college work taken during the absence from UW-Milwaukee must be submitted. This application is available at www.admissionsforms.uwm.edu.

Applications for most programs will be accepted until **July 1** (for fall term admission) or **December 1** (for admission to UWinterim or the spring term, for which classes start in January). **However, earlier deadlines apply for certain programs and applications received after enrollment capacity has been reached may not be reviewed. See www.admissions.uwm.edu.**

In addition to filing a reentry application to the University, readmission for a student who has been dropped from the University because of poor academic performance must be approved by the dean of the school or college from which the student was dropped. Students should schedule an appointment with their academic advisor to begin the school or college approval process.

For more information about reentry procedures or to request an application form, contact the Department of Admissions and Recruitment at (414) 229-2222.
**Summer Sessions Enrollment**

Students admitted as degree candidates at UWM for the summer term may attend Summer Sessions and continue in the fall semester, provided they continue to satisfy established academic standards. Admission requirements are the same as for other semesters. Students enrolled for the spring semester automatically receive registration information for Summer Sessions.

New freshmen or transfer students admitted for the fall semester also may request a change of term to the preceding Summer Session in order to begin their studies earlier at UWM. For more information about a term change, call the Department of Admissions and Recruitment at (414) 229-2222. Or go to [www.admissionsforms.uwm.edu](http://www.admissionsforms.uwm.edu) to print off a term change form and submit it for processing.

Students enrolled at another college or university during the academic year who wish to attend UWM during the summer term only may qualify for admission as Summer Guest students. See Nondegree Students section below for specific information.

For more information about summer sessions enrollment go to [www.summer.uwm.edu](http://www.summer.uwm.edu).

**Nondegree Students**

There are a number of different options, described below, for students who wish to attend classes at the University but who are not seeking a degree. Please note that in most cases, nondegree students are not eligible for financial aid.

**Non-Degree Students.** This program is designed for individuals interested in taking undergraduate courses for personal enrichment, career change, preparation for admission to graduate school, or as a first step into a degree program. Nondegree students earn college credit for courses successfully completed and pay tuition at the same rate as degree-seeking students.

If you wish to be admitted as a nondegree student and do not have a bachelor's degree, you must have graduated from a recognized high school at least one year prior to the desired semester of enrollment. All students out of high school less than two years must present official transcripts and meet regular admission requirements for undergraduate degree students.

If you already have completed an undergraduate degree at an accredited institution, you must still complete the nondegree ("Special Student") application form, but you will not be required to submit transcripts in order to be admitted.

Nondegree students need to maintain a C grade point average in order to continue in good standing. Individuals who enter a degree program at UWM in the future will be able to transfer all undergraduate credits into their program. With a few exceptions, no credits earned will be considered now or in the future as graduate credits.

Many courses are open to nondegree students, but there are some restrictions in high-demand areas. Information on courses open to nondegree students can be found in the Schedule of Classes at [www.schedule.uwm.edu](http://www.schedule.uwm.edu)

Admission and registration information and advising services for nondegree students are available in the Department of Admissions and Recruitment, Vogel Hall, 3253 N. Downer Ave., (414) 229-2222.

**Summer and UWinteriM Guest Students.** Most Guest students attend another college or university during the academic year, but take summer or UWinteriM courses at UWM for personal enrichment or for credit transfer to the institution where they are pursuing a degree. This category also is used for individuals who have an undergraduate degree but wish to enroll during a summer or UWinteriM term only. Guest students may qualify for admission without providing official university transcripts. For more information, contact the Department of Admissions and Recruitment, Vogel Hall, 3253 N. Downer Ave., (414) 229-2222.
School/College Nondegree Students. Students who do not wish to enroll in a degree program, but who want to take courses in a specialized area of study such as business administration, engineering, or certain majors within the College of Letters & Science, may be admitted as Special Students by a specific UWM school or college.

Nondegree students admitted under these classifications may be eligible to enroll in certain high-demand courses that are not open to other nondegree students. In the College of Letters & Science, students who have not completed an undergraduate degree are expected to meet the regular requirements for admission and submit transcripts. For more information, contact the specific UWM school or college in which you wish to enroll.

Education Nondegree Students. Students with bachelor's degrees who are interested in pursuing a teacher certification program may be admitted as Education Certification Nondegree ("Special") Students. Admission to the teacher certification program requires approval from the School of Education. For more information, contact the Curriculum and Instruction Office at (414) 229-4904.

Audit-Only Students/Auditors. Students may opt to audit courses rather than enroll for credit. Students who are only auditing courses will typically pay lower fees for audited courses and in some cases may audit courses free of charge, subject to space availability and instructor approval. Additional information about auditing classes is found in this catalog in the "Academic Opportunities" section. Or, contact the Registrar's Office, Mellencamp Hall, Room 212, (414) 229-6571.

Information for Out-of-State Students

Residency. Residency, for tuition purposes, is governed by Wisconsin statute. It is the mutual responsibility of the University and the student to make certain that he or she is correctly classified as a resident or nonresident for tuition purposes. If an error is discovered, the student will be notified that he or she must pay the nonresident portion of the tuition immediately. Students who question their status should contact the Department of Admissions and Recruitment in Mellencamp Hall, Room 290, (414) 229-4672. A student who wishes to appeal the nonresident classification should request a nonresidency appeal form prior to the tuition due date for the semester. For more information regarding residency, go to the website at www.residenttuition.uwm.edu.

Minnesota/Wisconsin Reciprocity Agreement. Minnesota residents may be eligible to participate under the Minnesota/Wisconsin Reciprocity Agreement. Students certified under this program pay tuition at a special rate that is less than nonresident tuition. A certification year runs from July 1 through June 30, although degree students are normally certified once during the full duration of their academic career if they remain continuously enrolled.

Persons not certified by the date on which fees are due will be required to pay nonresident tuition and fees. The appropriate amount will then be refunded upon certification by the State of Minnesota Office of Higher Education Reciprocity Program. For more information, contact the State of Minnesota Office of Higher Education Reciprocity Program, 1450 Energy Park Dr., Suite 350, St. Paul, MN 55108, (651) 642-0567, (800) 657-3866, or www.ohe.state.mn.us.

Midwest Student Exchange Program. UWM participates in the Midwest Student Exchange Program (MSEP), a collaborative program that enables qualified students to attend a participating college or university in another MSEP state at a substantial discount from the usual tuition rate. Students attending UWM as part of the MSEP will pay 150% of the Wisconsin resident rate. For more information, visit www.msep.uwm.edu.

Illinois Scholar Award. Up to $3,000/year depending on the student’s academic profile. Renewable up to four years, if criteria are met. Eligibility: Illinois residents not eligible for Wisconsin resident-status tuition; must also meet certain academic criteria. Contact: Department of Admissions and Recruitment, (414) 229-2222, or go to www.uwm.edu/studentaffairs/em/dar for information on this program. Awards will be made to qualified applicants until funding is exhausted.
Advising and Orientation for New Students

All new students are assigned an academic advisor upon admission to UWM. New freshmen are required to participate in an advising, registration, and orientation program prior to their first semester of enrollment. These programs are held during the summer for students entering in the fall semester and during January for students entering in the spring semester. Accommodations can be made for out-of-town students who need to combine placement testing, advising, registration, and orientation in a single trip to campus. A family and guest orientation program is held concurrently with the student program.

In order to be invited to an orientation, new freshmen must take their Placement Tests, complete their University Housing contract or exemption form, pay their University Housing down payment (if applicable), and pay the $235 New Freshman Fee. More detailed information about this process will be mailed to you upon admission to the University. For more information, go to nsorientation.uwm.edu. Advising and registration programs for transfer and nontraditional students also are conducted each year. Participation is strongly encouraged. For more information, go to taso.uwm.edu.

Placement Testing

All incoming freshmen admitted to UW-Milwaukee are required to complete placement testing in math and English. Depending on your course of study, you also may be required to take an exam in chemistry and/or foreign language. These tests help determine appropriate placement in your college courses and must be completed before you can register for classes. Transfer students and reentry students may be required to take placement tests also, depending on previous coursework and intended degree plan. Check with your advisor to determine if you need to complete placement tests.

English Placement Test (EPT). The English placement test consists of three subtests in the following areas: English Usage, Sentence Correction, and Reading Comprehension. The English Placement test takes 90 minutes to complete.

Math Placement Test (MPT). The Mathematics Placement Test measures three different sets of skills: Math Basics, Algebra, and Trigonometry. The test takes 90 minutes to complete. Students are allowed to use a scientific calculator. Graphing calculators may not be used and will not be permitted in the testing room. Only nongraphing, nonprogrammable calculators are permitted for use on this test.

Foreign Language Placement Tests. These are tests of grammar and reading comprehension, and take 60 minutes to complete. Students who have taken French, German, or Spanish in high school and plan to continue in the same language should take the appropriate foreign language test. Students are allowed to enroll in a course one semester more advanced or one semester less advanced than the recommended one. Students may be eligible for retro-credits upon completion of that UWM course. For example, if you place into the third semester course and complete that course with a grade of B or better, you can apply to receive credits for that course in addition to the retro-credits for the first semester and second semester courses.

The Japanese language program has its own placement test administered in the Testing Center. Students who take this test are required to meet with the coordinator of Japanese. For most other languages, students who wish to enroll in a course beyond the introductory one should confer with the relevant language coordinator. Students will be asked to complete a test administered through that particular office. For example, if you wish to be placed into the third semester course, you will be asked to take the final exam from the second semester course.

Chemistry Placement Test. The purpose of this test is to assist with placement in college-level general chemistry courses. Student preparation is assumed to include one full year of high school chemistry and one full year of high school algebra. Certain plans require completion of the Chemistry placement test. Check the Schedule of Classes for course prerequisites or contact the Testing Center to determine if you need to complete the test. There are three parts to the test: General Mathematics, General Chemical Knowledge, and Specific Chemical Knowledge. This test is 55 minutes. Only nongraphing, nonprogrammable calculators are permitted for use on this test.

English as a Second Language - Placement in Composition Test (ESL-PIC). If you grew up speaking a language
other than English, you should take this test. As an ESL (English as a Second Language) writer, you can complete your English requirement by taking ESL writing courses instead of the English composition courses designed for native speakers of English. The ESL writing courses also can help you do better in all of your university courses. This test lasts 75 minutes and dictionaries are optional.
FINANCIAL INFORMATION

- Financing Your Education
- Military Educational Benefits
- Fees/Tuition

Please Note:

For the latest Financial and Financial Aid Information, as well as current advising hours, please visit www.financialaid.uwm.edu.

Financing Your Education

Department of Financial Aid, Student Employment, and Military Education Benefits

Mellencamp Hall, Room 162
(414) 229-4541
finaid@uwm.edu
www.financialaid.uwm.edu

Attending college is one of the most exciting and challenging times of your life. College tuition could be one of the largest expenditures you ever make—but also one of your best investments. The typical bachelor's degree recipient can expect to earn about 66 percent more during a 40-year working life than a high school graduate. Most students (and their families) will need to use a combination of tools to help finance their higher education. Our staff can help take the challenge out of financing a college education. Information is provided here and on our website to help you formulate a financing plan. We are confident you will find UWM very affordable as you compare your out-of-pocket costs with other colleges.

Costs

Before you can create a financing plan, you need to know how much money you will need. Unfortunately, tuition costs are often not available until mid- to late summer. However, you can look at the prior semester/year's costs and use them as an estimate. In fact, the budgets used by the Financial Aid Department are all based on estimates. If increases in expenses are anticipated, those are built into the estimates each year. You are encouraged to become familiar with the Bursar Office website (www.bursar.uwm.edu), which contains detailed information on costs and how to pay your bill.

You can review University Housing cost and meal plan information on the University Housing website, www.uwm.edu/housing.
The Financial Aid Department develops an "Estimated Cost of Attendance" which is kept on our website and itemizes allowable costs that will be used in determining your budget if you apply for financial aid. These numbers are used in determining your eligibility for financial aid. However, even if you don’t apply for financial aid, you may find the numbers useful as a starting place in determining your own individual budget. Once you have an idea of what it will cost, the next step is to determine what you will have for resources.

Resources

Savings. Parents (and students) are encouraged to incorporate college savings as one component of their overall financial plan. While you may not be able to save enough to pay the entire cost of a college education, any savings will mean that much less that you have to worry about financing.

Families with a desire to save for future college expenses have more options than ever before. Powerful investment vehicles, including Section 529 college savings programs and Coverdell education savings accounts, were added to traditional investment options—savings accounts, taxable investment accounts, annuities, and U.S. Savings Bonds—as a means to save for college. You may wish to review www.savingforcollege.com which contains information on the basics of saving for college. Of course, the earlier you start saving for college, the better. If the tuition bill is right around the corner, you may need to supplement any savings you have accumulated with other resources.

Scholarships. Numerous scholarship opportunities are available through the Financial Aid Office, academic departments, and UWM Foundation. For a complete listing of all campus scholarships, as well as a copy of our Freshman Scholarship Brochure, please refer to the scholarship area of our website. There also are numerous links to free scholarship searches on our website. If you are in high school, don't forget to check with your guidance counselor for potential scholarship opportunities.

Financial Aid. All students are strongly encouraged to apply for financial aid. It is free, easy, and should be done online at www.fafsa.gov (Free Application for Federal Student Aid site). If you submit your federal tax returns online two weeks prior to submitting your FAFSA, and pay any tax owed, you may be able to answer a number of the questions on the FAFSA by using the IRS Data Retrieval Tool (DRT). Using the DRT means copies of your tax returns will not be requested. It could also mean a lower chance of being selected for verification, which causes delays in determining your aid eligibility. March 1 is the annual UWM priority filing date for an academic year beginning that fall. However, you should file as early as possible to receive the best aid package available. Many programs have a limited amount of funding and aid is awarded on a first-come, first-served basis. In most cases, it will take a minimum of one month from the date the FAFSA is submitted to complete the process of applying for aid and having your eligibility determined. Applicants waiting until after May 1 to file a FAFSA or submit a loan application will most likely experience longer processing times. You are required to complete a new FAFSA each year, although for subsequent years much of the information is already completed; you are asked just to update key data elements.

Many parents of college-bound students don’t bother filing the FAFSA because they’re convinced they make too much money to qualify for any financial assistance. In reality, though, most people underestimate their eligibility for financial aid. Nearly 80% of UWM students receive financial assistance, with an average award of more than $11,000 per student per year. Minimally, most students can receive a Federal Direct Stafford Loan (with a low fixed interest rate), but only after filing a FAFSA. To receive an early estimate of your expected family contribution as well as aid eligibility, you can go to www.fafsa4caster.ed.gov or www.awardestimator.uwm.edu.

A student qualifies for need-based aid if the total cost of attendance, including tuition and fees, an allowance for room and meals, transportation, books and supplies, and personal miscellaneous expenses, is greater than their expected family contribution (EFC). Students who do not qualify for need-based aid may still be eligible for a non-need-based loan. To be eligible for financial aid, a student must also maintain satisfactory academic progress, be a United States citizen or an eligible noncitizen, be admitted to the University, and, in most cases, attend UWM on at least a half-time basis.

Financial aid falls into three broad categories, any or all of which may be offered to a student as part of his or her financial aid package: grants and scholarships (gift aid that does not need to be repaid), loans (money borrowed at low
interest that must be repaid), and federal work-study (a program that provides employment opportunities for students). For details on grants, scholarships, student employment, and loans, please visit the various subsections of our website.

Many students work while attending college. Although some students, based on the results of their FAFSA, will be offered employment through the Federal Work-Study program, many more find employment on their own—both on and around campus.

One of the best ways to increase the affordability of a college education is to take advantage of federal tax breaks aimed at families/students saving and paying for college. Additional information can be found on our website.

Installment Payment Plan. This plan is offered by the University through the Bursar Office to those who are unable to pay their bill in full (including any financial aid) by the first due date.

Additional Loans/Resources

Many students (and often their parents) have no choice but to borrow. There are steps that can be taken to reduce the amount owed at graduation. To start, reduce your budget wherever possible. You may have heard the saying, “Live like a poor college student now so that you don’t have to live like one after you graduate.” Also, make sure you take full advantage of the Federal Direct Stafford Loan program before you take out any private loans. Additional information on the Direct Loan program can be found in the loan area of our website.

Parent PLUS Loan. A FAFSA must be completed before a Parent PLUS Loan can be certified. Parent PLUS Loans have a fixed interest rate that is determined in early June for the upcoming academic year. The interest rate for Parent PLUS Loans disbursed for 2013-14, was 6.41%. Parents must borrow this loan through the Federal Direct Loan program. A credit check is required. The Parent PLUS application is found online at www.studentloans.gov.

Private Alternative Loan. These are private student loans, usually in the student’s name, which aren't guaranteed by the federal government. Some have fixed interest rates, but most have variable rates that are typically tied to the prime rate or another benchmark. Rates range from about 6% to more than 14%. These loans should only be used as a last resort. Students usually need to apply with a co-signer. Not doing so generally means you will pay much higher rates or you might not be able to get a private loan at all.

Financial Aid Satisfactory Academic Progress (SAP) Standards

University and Federal regulations require that a student be making satisfactory academic progress (SAP) toward a degree to be eligible for financial aid. SAP consists of two components of measurement: qualitative and quantitative. A student's SAP is reviewed on a semester-by-semester basis.

Qualitative: Financial aid recipients are governed by the performance standards of the school or college in which they are enrolled. Failure to meet the required standards may make a student ineligible to continue enrollment and therefore ineligible for financial aid.

Quantitative: Students will be expected to be making satisfactory "pace" toward a degree by passing two-thirds, 66.67%, of the classes they enroll in. Students' aid eligibility will be limited to 180 attempted credits for their first undergraduate degree. These new guidelines went into effect for the 2011-12 academic year. Students will be notified of their status shortly after grades are posted each semester. For more information about the new SAP policy, please refer to the Academic Progress Standards page of our website.

Military Education Benefits

Students may be eligible for military education benefits if the criteria are met under one of the programs listed: Post 9/11 Veterans Education Assistance Act of 2008, Montgomery GI Bill - Vocational Rehabilitation, and Dependent Educational Assistance. Wisconsin veterans also may be eligible for educational assistance under the Veterans
Education Grant Program and the Wisconsin GI Bill. The Wisconsin GI Bill also allows for tuition and fee waivers for eligible spouses and children of Wisconsin veterans who are deceased or 30 percent or more disabled. For detailed information about each program, please refer to the UW-Milwaukee Military Educational Benefits link on the financial aid website.

Members of the National Guard also may be eligible for tuition reimbursement under the National Guard Tuition Grant Program. Guard members should contact their unit for additional information on eligibility.

Members of the Reserves or students attending school while on active duty may be eligible for Federal Tuition Assistance to help with tuition costs.

To determine qualifications under these programs or to apply, contact the staff in the Military Educational Benefits Office (located west of the Financial Aid Office) in Mellencamp Hall, Room 168A, by phone at (414) 229-6627, or via email at vets@uwm.edu.

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**Fees/Tuition**

**Rates.** The base undergraduate fees/tuition rate for Wisconsin residents during the 2013-14 academic year was approximately $9,300 for a full-time (12-18 credits) student. The full-time rate for nonresidents was approximately $19,028. These tuition amounts do not include the differential tuition charged for some programs, additional special course fees for online/distance education classes, or special course fees related to materials, equipment rental, or field trips. Consult the Bursar Office website (www.bursar.uwm.edu) for the fee/tuition rates currently in effect.

**Financial Obligation and University Credit Agreement.** Students make a financial commitment when registering for classes at UWM. All students are required to sign a University Credit Agreement. The University Credit Agreement is now available online from the Student Center (Home Page) in PAWS. Students can click on the Credit Agreement link located in the Finances section to view and complete the agreement.

**Advance Tuition Deposit Requirement.** The Advance Tuition Deposit Hold requires all financial obligations with a prior due date plus a minimum payment be paid to your student account before you will be allowed to register for the upcoming semester.

**Exemptions from the Advance Tuition Deposit Requirement.** Students who have a qualifying exemption from the Advance Tuition Deposit are not required to make this payment. Visit the Bursar Office website (www.tuitionandfees.uwm.edu) for a list of qualifying exemptions.

**NOTE:** It is recommended that students check their Finances section on PAWS to make sure they have no outstanding financial obligations with a prior due date. If there are charges with a prior due date, payments posted to PAWS will apply to those charges first.

**Due Date.** Payment is due on the date specified on the student PAWS account. General tuition and fee due dates are available from the Bursar Office website (www.tuitionandfees.uwm.edu). You must view your PAWS account for exact due dates. **Failure to view PAWS does not negate the student’s responsibility to pay by the due date.** Continued enrollment at UWM is contingent on full payment of tuition and fees and any outstanding charges on the PAWS account.

**Payments on PAWS.** To review PAWS accounts, view payment due dates, or make payments online, select the Finances option on PAWS at www.paws.uwm.edu. All charges may be paid with webCheck, an electronic check payment option. MasterCard and American Express credit cards also are accepted. A 2.5% convenience fee is charged for PAWS online credit card payment transactions. For more payment options, visit the Bursar Office website (www.bursar.uwm.edu.)

**Installment Payment Plan.** The Bursar Office administers the Installment Payment Plan, primarily for students who do
not have sufficient funds at the start of the semester to pay in full by the fee due date. For more information about the Installment Payment Plan, contact the Bursar Office, Mitchell 295, phone (414) 229-4914, or see the Bursar Office website (www.bursar.uwm.edu).

Cancellation for Nonpayment. Please visit the Bursar Office website (www.bursar.uwm.edu) for detailed information regarding class cancellation for nonpayment.

Withdrawal. Charges are assessed for withdrawal beginning with the first day of the class session. Nonattendance does not constitute withdrawal. Students who fail to formally withdraw by dropping all classes online via PAWS or submitting a withdrawal form will remain responsible for full fees/tuition and will be subject to failing grades. In accordance with UW System policy, proof of withdrawal rests with the student.

Students' financial aid eligibility will be recalculated if they withdraw, are dismissed, or take a leave of absence prior to completing 60 percent of the semester. The recalculation is based on the equation "aid minus earned aid equals unearned aid." Unearned aid is returned to the funding source. When unearned aid for institutional costs is returned, students may incur a tuition, housing, or food service balance with the University. If students need to repay unearned aid for noninstitutional costs, they will be contacted by the Department of Financial Aid.
REGISTRATION

- Eligibility to Register
- Academic Advising Prior to Registration
- Registration Procedures and Deadlines
- Change of Registration/Add and Drop or Withdrawal from Classes
- Late Registration and Late Payment Fees
- Concurrent Registration
- ID Cards

Please Note:

For the latest registration information, check online at www4.uwm.edu/des.

Eligibility to Register

Continuing students who completed (or registered but withdrew from) the preceding term in good or probationary academic standing are eligible to continue at UWM unless they received a degree. Students who previously attended UWM but were not enrolled the preceding two terms must be readmitted to UWM.

Students who have been out more than two terms must file a reentry application to return to the University. Transcripts of college work taken during the absence from UWM must be submitted.

New students, as well as students who received a degree but wish to return for further study, must be officially (re)admitted in order to be eligible to register. All students must clear any "holds" resulting from overdue obligations before being eligible for readmission or registration.

For more information about the application and admission processes, see the Admission section of this catalog.

Academic Advising Prior to Registration

All students are assigned an academic advisor upon admission to UWM and all new freshmen must meet with their advisor before they will be permitted to register for their first term. Academic advising prior to registration is also required for Academic Opportunity Center (AOC) students and is strongly encouraged for all students.

These requirements are subject to change. If you are unsure of the requirements for your particular program, or do not know who your academic advisor is, consult your school/college advising office. See Advising and Orientation for New Students for more information.

Registration Procedures and Deadlines
The initial registration cycle begins with the availability of the *Schedule of Classes*, which occurs in April for the following fall term; mid-October for the winter term; November for the spring term; and January for the summer term. The *Schedule of Classes* may be viewed online at [www.uwm.edu/schedule](http://www.uwm.edu/schedule).

Continuing students will be assigned registration appointment times that can be viewed on PAWS. Enrollment appointments indicate the first opportunity to register on the Web using PAWS after priority registration begins. New and reentering students will receive registration information as soon as appropriate after admission. New freshmen register as part of a new student advising and registration program (see [Advising and Orientation for New Students](http://www.uwm.edu/advising/)).

Students will be assigned an "earliest possible" registration date and time based on their level and total earned credits within their level (e.g., graduate student, senior, freshman, junior, sophomore, special/nondegree student). More information may be found online at [www.enrollappointment.uwm.edu](http://www.enrollappointment.uwm.edu).

Details about the registration process, deadlines for a particular term, and penalties for late registration are described in the *Schedule of Classes*. Please ensure that you are taking advantage of your earliest opportunity to register, as well as complying with necessary procedures and deadlines.

### Change of Registration/Add and Drop or Withdrawal from Classes

After initial registration, students have the opportunity to modify their class schedule by adding, dropping, or withdrawing from classes during specific periods prior to the start of the semester. Such changes can be made without financial penalty until shortly before the start of the term (or before the start of a particular summer session). However, significant financial penalties can apply for changes made beyond the appropriate deadline, and some departments have unique deadlines and approval requirements governing how and when students may add and drop particular courses. Some academic programs also require their students to obtain specific approval for adding or dropping courses. Consult the online *Schedule of Classes* for dates, deadlines, and procedures.

### Late Registration and Late Payment Fees

Additional fees and penalties will be assessed of students who register after published deadlines or who pay their fee/tuition assessments late. Consult the *Schedule of Classes* or Bursar Office website at [www.bursar.uwm.edu](http://www.bursar.uwm.edu) in order to avoid these penalties.

### Concurrent Registration

Students wishing to enroll concurrently at UWM and at another college or university may do so only with the advance approval of their UWM school/college advising office.

Students enrolled part time at more than one UW campus normally pay fees separately to each campus. Students enrolled full time at one campus and part time at another generally pay full time tuition at their full time campus and only segregated fees at the part time campus. However, some specialized programs or courses with special class fees may require payment above the full time fee rate. Contact the Registrar's Office for additional details.

### ID Cards

UW System regulations require that each student have a picture ID card. This card is used in the UWM Library, the Klotsche Center, the Union, and other places to verify student status and eligibility for participation or service. Students are expected to obtain their ID during their first semester at UWM. ID cards may be obtained in the Registrar's Office, Mellencamp Hall, Room 274.

If you are enrolled only in online courses and wish to obtain an ID card verifying your affiliation with UWM, go to [www.onlineid.uwm.edu](http://www.onlineid.uwm.edu) for more information.
UWM Undergraduate Catalog 2014-2015

CAMPUS RESOURCES

- Athletics
- Career Development Center
- Center for International Education
- Dean of Students/Office of Student Life
- University Information Technology Services
- Intensive English Program (IEP)
- Services for Adult and Returning Students
- Student Accessibility Center
- Student Health
- UWM Children's Center

Athletics

Pavilion
(414) 229-5151
www.uwmpanthers.com

UWM offers 15 NCAA Division I sports that are highly competitive both regionally and nationally. The teams compete in the Horizon League and the Panthers have won the league's all-sports trophy five times while also regularly ranking among the top schools in the league for academic accomplishment.

UWM men's sports offerings include baseball, basketball, cross country, soccer, swimming and diving, tennis, indoor and outdoor track and volleyball. Women's intercollegiate sports are basketball, cross country, soccer, swimming, tennis, indoor and outdoor track and volleyball.

To be eligible for intercollegiate competition, you must be admitted to a degree-granting program, be enrolled with 12 degree credits during competition, and maintain satisfactory progress toward a degree.

Students also can get involved in athletics by attending events throughout the year. UWM students are admitted free to all games with their student ID. Home events take place on campus in the Klotsche Center and at Engelmann Stadium, as well as off campus at the U.S. Cellular Arena, Henry Aaron Field and LeClub.

A wide range of intramural sports for individuals and teams also are offered by the Department of Recreational Sports and Facilities. Most sports are offered both semesters. For more information, contact the intramural office at (414) 229-6433.

Career Development Center
The Career Development Center (CDC) helps students choose satisfying majors, build career skills, and make successful transitions from campus to career. Through a variety of programs, students can plan an education that is both rewarding and marketable. They also can plug into the largest job market in the state. Nearly two out of three jobs in Wisconsin are found in the Milwaukee metropolitan area.

CDC offers several services, including career counseling; walk-in advising/resume review; classroom and student organization workshops on a variety of topics like Choosing a Major/Career Direction, Resume Writing, Networking, Securing Internships, and Using Social Media and Interview Preparation; Career Days, which bring more than 100 employers to campus; two-credit courses in College Major Career Decision Making and Successful Career Transitions; a comprehensive website that serves as a virtual career center; and a Career Information Library and Media Center, Computer Labs, and personal assistance from a trained group of Peer Advisers (Career Resource Assistants).

Employer partnerships are a significant aspect of the CDC program. Representatives from companies like BMO Harris Banks, The Milwaukee Bucks, Northwestern Mutual, Roundy’s, Direct Supply, Kohl’s, Target, Coca-Cola, Best Buy, General Mills, and Metropolitan Life, as well as the Milwaukee Public Schools and nonprofit organizations, often interview and participate in events on campus. PantherJobs, a web-based technology connects UWM students and alumni with employers at all levels including internships and part-time opportunities and campus jobs.

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**Center for International Education**

*Garland Hall, Room 102*

(414) 229-3757

[www.international.uwm.edu](http://www.international.uwm.edu)

The Center for International Education offers a full array of international learning opportunities that help students develop the knowledge and skills necessary to understand and succeed in today's increasingly interconnected world. CIE coordinates several of UWM's international academic majors, minors, and certificate programs, as well as its study abroad programs. Film series, public lectures and conferences, and internationally-focused student organizations further engage students with critical global issues. The Beyond Borders: International Living & Learning Community connects new freshmen with peers who share an interest in learning about the broader world.

CIE also coordinates UWM's international student admissions and immigration services. Specialized orientation programs and advising help to ensure that international students experience a smooth transition to and positive experience while at UWM.

For more information about CIE programs, please see our website or visit us in Garland Hall, Room 102.

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**Dean of Students/Office of Student Life**

*Mellencamp Hall, Room 118*

(414) 229-4632

[www.dos.uwm.edu](http://www.dos.uwm.edu)

The Dean of Students (DOS) Office is a central resource for students and is here to support their success as a member of
the University of Wisconsin-Milwaukee community. Students might come to DOS to seek help resolving problems or to seek support in times of crisis. We help students navigate University offices and processes and find appropriate resources. We also work with students to resolve fee appeals and support individuals who need to withdraw for severe medical reasons. Additionally, the Dean of Students Office promotes students' rights and responsibilities by addressing student behavior on campus and in the surrounding communities.

The Dean of Students Office publishes a Panther Planner & Undergraduate Student Handbook that provides students with information about the range of campus activities and resources available, as well as access to important policies and procedures. Planners are available from the Office in Mellencamp Hall, Room 118.

Contact the DOS Office if there is an incident or problem you'd like to report; if you need someone to listen, help, or lend a hand; or if you just can't figure out where to go.

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**University Information Technology Services**

*UWM Help Desk, 7 a.m. to midnight*

(414) 229-4040; toll-free 877-381-3459; GetTechHelp.uwm.edu

Mon.-Fri., 8 a.m.–5 p.m.: Help with wireless and clickers at the UWM Walk-in Help Desk, Bolton 225; help with UWM WiFi at Library Learning Commons IT Consultant desk

www.technology.uwm.edu

Technology services are provided to assist students with their coursework, in the classroom, and with their research.

An ePantherID and password are assigned to applicants so they can track their application online. Once enrolled in classes, the ePantherID and password provide access to UWM online services such as pantherLINK email and calendar services; PAWS student services to register for classes, view final grades, and pay tuition; pantherFILE to securely store and share files; D2L online course management system for coursework; and other IT services and resources. To assist in their research, students have access to a powerful online survey tool and UWM's High Performance Computing service.

Computer hardware and software services are available to students via the UWM TechMall. There, students will find information about and access to the UWM TechStore to purchase computers with an educational discount, iPads, iPods, printers, and technology-related peripherals and accessories. Students can also use the UWM TechRepair computer repair facility in Bolton 218, purchase discounted software through the online Wisconsin Integrated Software Catalog (WISC), and get in-person training and on-demand how-to videos for UWM technology services and commonly used software from Learning TECHniques.

Wireless service is offered in University buildings via PROWLnet and UWM WiFi. Students will find Campus Computer Labs (CCLs) with Macs, PCs, printers and scanners; and Web Kiosks located in many UWM buildings for a quick check of the Internet. The UWM Mobile app provides real-time information and is available for free download at the Apple App Store or the Android Market.

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**Intensive English Program (IEP)**

*Curtin Hall, Room 672*

(414) 229-5757

esl@uwm.edu

www.uwm.edu/esl/iep
The Intensive English Program (IEP) is a noncredit, pre-university program that offers intensive English language training to students who are preparing for either undergraduate or graduate university studies and overall English fluency. The instruction is designed to strengthen listening, reading, writing, and speaking skills. Elective courses are offered in grammar and TOEFL (Test of English as a Foreign Language) preparation as well as in additional skill areas. Five eight-week sessions of English as a Second Language (ESL) classes are available every year: two consecutive sessions in the fall and spring semesters and one in the summer. For more information about IEP courses and enrollment, contact the ESL office in Curtin Hall 672 at (414) 229-5757 or esl@uwm.edu.

### Services for Adult and Returning Student

*Vogel Hall, 3253 North Downer Ave.*
(414) 229-2222
[www.adultstudent.uwm.edu](http://www.adultstudent.uwm.edu)

Have you followed another life path and now want to explore your college options? Been away from school long enough to realize it's time to come back? Enrolling in college coursework after a long time away from school can be a daunting task.

The Admissions and Recruitment staff is here to help adult students navigate through the back-to-school transition and find their niche at UWM. Advisors help prospective students identify their educational goals, assist non-degree undergraduates through the application and course selection process, and provide a home base to which adult students return for support and referrals. If the prospective adult student does not meet admission standards, advisors provide information about available options and assistance appropriate to the person's specific circumstances.

Applications are encouraged from veterans, educationally disadvantaged students, and other nontraditional applicants. Pre-admission advising for adults and other nontraditional students is available by appointment through the Department of Admissions and Recruitment. For more information or to schedule an appointment with an advisor, call (414) 229-2222. Or, feel free to connect with us at [contact.uwm.edu](mailto:contact.uwm.edu) for easy access to an online request form, phone, email, live chat or social media, all in one convenient location.

### Student Accessibility Center

*Mitchell Hall, Room 112*
(414) 229-6287 (V/TTY)
[www.sac.uwm.edu](http://www.sac.uwm.edu)

The Student Accessibility Center's (SAC) mission is to create an accessible and inclusive campus environment for students with disabilities that fosters the development of each student's full potential. SAC facilitates reasonable academic accommodations to promote equal access to students in their educational programs at UWM.

Reasonable accommodations are determined on an individual basis and need to be supported in current documentation of disability submitted to SAC. Accommodations may include, but are not limited to: notetaking, sign language interpreting and captioning services, adaptive equipment and materials, electronic textbook service, priority registration, and alternative testing.

SAC encourages students with disabilities to contact the office upon acceptance to UWM or immediately following diagnosis of disability. Early notification assists in arranging services that begin the first day of class, and is critical for students using sign language interpreters, captioning or notetaking services, and for those students requiring textbooks and materials in alternative formats.
Student Health

Norris Health Center
(414) 229-4716
www.uwm.edu/Dept/Norris

The Norris Health Center can help you stay healthy while coping with the demands of college life. The center provides high quality medical, mental health, and wellness services, at low cost, to enrolled students.

Diagnosis and treatment of illnesses and injuries are provided Monday through Friday. Center services include counseling, gynecological care, immunizations, allergy injections, sports medicine, men's health, physical examinations, confidential STD counseling and testing, and a variety of health promotion and wellness services. Laboratory testing and pharmacy are provided on site at a nominal charge. Appointments preferred; same-day options available.

UWM Children's Center

2114 E. Kenwood Blvd.
(414) 229-5384
www.uwm.edu/Dept/CC

The UWM Children's Center provides high-quality care for the children of UWM students, faculty, staff, UWM Alumni Association members, and Hartford University School families and teachers. The Center serves children six weeks through 12 years of age, and is accredited by the National Afterschool Association.
CAMPUS TOURS

Walking tours of campus are offered year-round 10 times per week (Monday, Wednesday, and Friday at 10 a.m. and 1 p.m.; Tuesday and Thursday at 10 a.m. and 3 p.m.) and Saturdays during the academic year (10:30 a.m. and 1:30 p.m.). Tours last approximately two hours and include a general information presentation. Due to limited space, reservations are required. For more information on visit opportunities or to make a tour reservation, go to www.visit.uwm.edu, contact the Department of Admissions and Recruitment at (414) 229-2222, or email uwmtours@uwm.edu.
ABOUT UWM

- Academic Worlds
- The Student Community
- The Milwaukee Community
- Student Right to Know

The University of Wisconsin-Milwaukee offers a world of intellectual, social, and personal possibilities. Whether you study at UWM for one semester or all the way through to an undergraduate degree, this catalog can help you make the most of those possibilities. UWM features:

- 94 bachelor's degree programs, 58 master's programs, one specialist degree, and 34 doctoral programs.
- 14 schools and colleges.
- More than 3,000 different courses, including evening and off-campus classes.
- Faculty members who are nationally recognized for research and publication and are active citizens of the metropolitan community.
- A community of 30,000 students, 1,674 faculty and instructional staff, and more than 2,000 staff members.

UWM was established 57 years ago, in 1956, with the merger of Wisconsin State College, Milwaukee, and the University of Wisconsin Extension Center in Milwaukee. (Wisconsin State College traces its origin to the Milwaukee State Normal School, founded in 1885.) Since then, UWM has become a major part of the intellectual, cultural, and economic life of Southeastern Wisconsin.

Academic Worlds

The academic worlds at UWM include:
- School of Architecture and Urban Planning
- Peck School of the Arts
- Sheldon B. Lubar School of Business
- School of Education
- College of Engineering and Applied Science
- School of Freshwater Sciences
- College of Health Sciences
- School of Information Studies
- College of Letters and Science
- College of Nursing
- Joseph J. Zilber School of Public Health
- Helen Bader School of Social Welfare
- Graduate School
- School of Continuing Education
The Student Community

With increasing regularity, the world's students are making UWM a first-choice destination. UWM's diverse student body representing 80 countries and all 50 states and the District of Columbia is attracted by UWM's academic excellence and urban setting, convenient to the professional, cultural, and recreational advantages only a large metropolitan area can offer.

There's a lot for students to do at UWM. In the Peck School of the Arts complex and elsewhere on campus, you can enjoy concerts, art exhibitions, dance performances, and films by student and faculty artists and by distinguished visitors from the broader art world. You can cheer for UWM athletic teams, work off your tensions in organized or pickup sports, or keep in shape at the Klotsche Center. The Center, and the campus in general, are accessible to disabled students. As a student, you're also eligible for medical services at the Student Health Center.

At UWM, social life centers on the Union, where students can see internationally acclaimed authors, buy course books and Panther gear, dine at restaurants from very fast to sit-down-and-stay, view French and Latin American film festivals, or wait for the bus. UWM's four residence halls house mostly first-year students in suite-style accommodations. Residents have access to a variety of dining and activity options in all complexes.

The Student Association and hundreds of other campus groups give students a voice in University life and opportunities to explore interests ranging from politics to sailing. Students are represented on University committees, publish newspapers, and are involved in radio station WUWM-FM 89.7.

The Milwaukee Community

As a student at Wisconsin's major urban university, you have access to the employment, social, cultural, and recreational opportunities of a large city, while enjoying the closeness of the UWM community.

UWM's 104-acre main campus is located on Milwaukee's upper East Side, one of the city's most attractive residential areas and home to many faculty, staff, and students. UWM also is just a short walk from historic Lake Park and the beautiful Lake Michigan shoreline, and a short drive or bus ride from a wealth of cultural and recreational resources.

Our location in the cultural and economic heart of Wisconsin puts students in the center of a growing metropolitan area that doubles as a learning laboratory.

Student Right to Know

The University has created a website to notify prospective and current students and their parents about their rights and responsibilities, as well as the services and programs offered at UWM. The items available include information about campus safety, academics, financial aid, and graduation rates. To access this website, go to www.right2know.uwm.edu. If you require paper copies, feel free to print the information directly off the Web or contact the department that provides that information, and a copy will be sent to you.
SCHOOLS AND COLLEGES

- Architecture and Urban Planning (School of)
- Arts (Peck School of the)
- Business (Sheldon B. Lubar School of)
- Education (School of)
- Engineering and Applied Science (College of)
- Freshwater Sciences (School of)
- Health Sciences (College of)
- Information Studies (School of)
- Letters and Science (College of)
- Nursing (College of)
- Public Health (Joseph J. Zilber School of)
- Social Welfare (Helen Bader School of)
Degree Programs

Bachelor of Science Architectural Studies

Master of Architecture

Master of Urban Planning

Doctor of Philosophy Architecture

The School of Architecture and Urban Planning at UWM offers the only professional program in architecture in Wisconsin that is accredited by the National Architectural Accrediting Board; one of the two graduate planning programs in the state accredited by the Planning Accreditation Board (PAB) of the American Planning Association; and one of very few doctoral programs in architecture in the United States. As the urban center of the state with strong ethnic communities, Milwaukee makes an appropriate setting for the study of architecture and urban planning.

In addition to the degrees listed above, the School offers a Master of Architecture/Master of Urban Planning, a coordinated professional degree program designed for persons seeking integrated study in both areas. A PhD in Architecture is offered for persons who seek careers in research and teaching in architecture and allied fields, in consulting, or in roles in government and professional practice requiring advanced skills and research experience.

Most states require that an individual intending to become an architect hold an accredited degree. There are two types of degrees that are accredited by the National Architectural Accrediting Board: (1) the Bachelor of Architecture, which requires a minimum of five years of study, and (2) the Master of Architecture, which requires a minimum of three years of study following an unrelated bachelor’s degree or two years following a related preprofessional bachelor’s degree. These professional degrees are structured to educate those who aspire to registration/licensure as architects.

The four-year, preprofessional degree, where offered, is not accredited by NAAB. The preprofessional degree is useful for those wishing a foundation in the field of architecture, as preparation for either continued education in a professional degree program or for employment options in architecturally related areas.
Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Faculty and Staff

Administration

Robert Greenstreet
Dean

Stephen Heidt
Assistant Dean, Business Affairs

Joan Simuncak
Assistant Dean, Student Affairs
Graduate Advisor

Tammy Taylor
Undergraduate Administrator

Architecture

Jasmine Benyamin, Asst. Prof., PhD
Princeton University

Chris T. Cornelius, Assoc. Prof., MArch
University of Virginia

Kevin Forseth, Assoc. Prof. Emeritus, MArch

Robert Greenstreet, Prof., PhD, Dean
Oxford Brookes University

Donald L. Hanlon, Prof., MArch
University of Washington

Nancy Hubbard, Assoc. Prof., PhD
Northwestern University

Thomas C. Hubka, Prof. Emeritus, MArch

Raymond Isaacs, Assoc. Prof., PhD
University of California, Berkeley

Frederick Jules, Prof. Emeritus, MArch

Mark Keane, Assoc. Prof., MArch
University of Illinois

Linda R. Krause, Assoc. Prof., PhD, Associate Dean
Yale University
Grace La, Assoc. Prof., MArch
Harvard Graduate School of Design

Jeffrey Ollswang, Prof. Emeritus, MSc

Harvey Rabinowitz, Prof., MArch
Rensselaer Polytechnic Institute

Amos Rapoport, Distinguished Prof. Emeritus, MArch

Kyle Reynolds, Asst. Prof., MArch
Princeton University

Douglas Ryhn, Prof. Emeritus, MS

Brian Schermer, Assoc. Prof., PhD
University of Michigan

Anthony Schnarsky, Assoc. Prof. Emeritus, MArch

Arijit Sen, Assoc. Prof., PhD
University of California, Berkeley

James W. Shields, Assoc. Prof., MArch
University of Wisconsin-Milwaukee

Gil Snyder, Assoc. Prof., MArch, Associate Dean
Columbia University

Manu Sobti, Assoc. Prof., PhD
Georgia Institute of Technology

Josef Stagg, Assoc. Prof., DArch
University of Michigan

Kyle Talbott, Assoc. Prof., MArch
Texas A&M

Gregory Thomson, Asst. Prof., MArch
University of Oregon

Michael Utzinger, Assoc. Prof., MSE
University of Wisconsin-Madison

Karl Wallick, Asst. Prof., MArch, Chair
University of Pennsylvania

James H. Wasley, Assoc. Prof., MArch
Rice University

Gerald Weisman, Prof., PhD
University of Michigan

Larry Witzling, Prof., PhD
Cornell University
UWM Undergraduate Catalog 2014-2015

Sheldon B. Lubar School of Business

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SHELDON B. LUBAR SCHOOL OF BUSINESS

Student Services Center
Lubar Hall, N297
(414) 229-5271
lubar-webreq@uwm.edu
www.uwm.edu/business

Degree Programs

Bachelor of Business Administration (BBA): Accounting, Finance, Human Resources Management, Information Technology Management, Marketing, Supply Chain & Operations Management
Bachelor of Arts in Global Studies: Global Management Track: Jointly offered by Lubar School of Business and College of Letters and Science

Master of Business Administration (MBA): With career focus concentrations available in Health Care Management and Supply Chain Management

Master of Management (MS): Accounting, Professional Accounting, Finance Analysis, Information Technology Management, Management, Marketing, and Taxation

MS-ITM.MBA: A coordinated degree program combining MBA and MS-ITM curricula

Master of Science in Human Resources and Labor Relations (MHRLR): Jointly offered by Lubar School of Business and College of Letters and Science

Master of Science in Nonprofit Management and Leadership: Jointly offered by Lubar School of Business and College of Letters and Science

Master of Public Administration (MPA): Jointly offered by Lubar School of Business and College of Letters and Science

MBA-Doctor of Nursing Practice: Administered collaboratively by the UWM College of Nursing and the Lubar School of Business


The UWM Sheldon B. Lubar School of Business is a major metropolitan business school committed to academic excellence. Because of its metropolitan location, the School offers several advantages. Milwaukee-area firms provide an exciting, real-world laboratory for students to gain valuable insights and skills in their chosen professional fields as well as providing part-time or full-time employment opportunities. Students can also gain practical work experience by participating in internship programs. Business leaders from the community participate in School activities, both in the classroom and on the School’s advisory councils.

High-quality management education that incorporates state-of-the-art technology is delivered to a diverse group of graduate and undergraduate students and practicing executives and professionals. We address the professional development and lifelong learning needs of individuals.

Through scholarly research, we advance knowledge pertaining to management decision making and practice and further enrich our teaching effectiveness.

Our undergraduate degree programs provide students with a career foundation leading to managerial advancement and/or entrepreneurial careers.

Our master's degree programs prepare students to assume general management or functional specialist positions, with potential for senior-level leadership positions or entrepreneurial careers.

Our doctoral degree programs prepare students for research and teaching careers in higher education and research careers in industry.

Our executive education programs provide customized problem solving for organizations.

We also employ our professional skills in service to the School, University, scholarly and professional organizations, and the regional business community. We capitalize on the diversified resources of the Metropolitan Milwaukee business community and use them as a living laboratory to enrich our scholarly and instructional pursuits.
The Lubar School of Business undergraduate and graduate degree programs are accredited by the Association to Advance Collegiate Schools of Business (AACSB-International), the internationally recognized accrediting body for business schools.

Completion of the accounting major, which is accredited by the Wisconsin State Board of Accountancy, serves as basic preparation for the CPA exam. The School’s finance majors are increasingly taking and passing the Chartered Financial Analysts (CFA) examination.

**Requirements for Employment, Licensing, or Professional Organizations.** Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records prior to acceptance of a student by the placement site. Students are responsible for obtaining the necessary information about these requirements and for planning their studies accordingly. Please contact the appropriate department or program office for further information.

**Admission**
The Bachelor of Business Administration degree is based on two years of college work in pre-business, followed by two years of study in the business curriculum. Potential applicants should consult the Department of Admissions and Recruitment, Vogel Hall, (414) 229-2222 for current information.

**New Freshmen.** Admission of freshmen into the Lubar School of Business would be granted to students who fulfill the UWM admission standards. All new freshmen are admitted into intended business programs. Intended business students who meet additional requirements will be admitted to a major in the Lubar School of Business (See "Admission to a Major" below.)

**Direct Admission for New Freshmen.** New freshman applicants with a composite ACT of 25 or better, a math subscore of 23 or better, and a high school GPA of 3.5 or higher will be admitted directly to the major in the Lubar School of Business and are eligible for Direct Admit Scholarship awards ranging from $8,000-$39,000 during the course of four years. Contact Lubar School of Business Scholarship Coordinator, Andrea Wrench, for further information (awrench@uwm.edu).

**Transfer Students.** Students seeking to transfer to the School with fewer than 56 transfer credits will be admitted into intended business if they meet the UWM admission requirements for transfer.

Applicants with 56 or more transfer credits will be admitted to the major if a review of their academic record indicates that they meet the admission criteria for the major requested (See "Admission to a Major" below.)

At least 50% of the business credit hours required for the business degree must be earned at UWM.

Students from two-year institutions (community colleges and two-year UW Colleges) are limited to the transfer of up to 72 credits required for the bachelor's degree.

**Admission to a Major**

Intended business students may apply for admission to the major after completing all of the following requirements:

1. Complete at least 56 credits and satisfy the UWM Oral and Written Communication and Quantitative Literacy requirements; and

2. Successfully complete (with a cumulative grade point average of 2.25 or higher) the **Business Foundation Course Group:** COMMUN 103 (Public Speaking) or COMMUN 105 (Business and Professional Communication); ENGLISH 205 (Business Writing); ECON 103 (Principles of Microeconomics); ECON 104 (Principles of Macroeconomics); MATH 211 (Survey of Calculus and Analytic Geometry) or equivalent; BUS ADM 201 (Introduction to Financial Accounting); and BUS ADM 230 (Introduction to Information Technology Management); and
3. Obtain a cumulative grade point average equal to or higher than the standard established by the Lubar School of Business each semester. Students who have a 2.5 cumulative grade point average or higher (including transfer work, if any) are guaranteed admission.

Students must be admitted to the major in order to enroll in 400-level and above business coursework. Please see the Lubar School of Business academic advising staff in LUB N297 for more information.

Course of Study
All students must meet the UWM General Education Requirements (GER). Detailed information is provided at www.uwm.edu/academics/ger.cfm. Satisfaction of the Lubar School of Business GER requirements fulfills UWM GER requirements. The following degree requirements apply to students who begin at UWM in fall 2012 or thereafter. Other students should contact the Student Services Center, Lubar Building, Room N297, for details regarding their degree requirements.

GER Competency Requirements

Oral and Written Communication: ENGLISH 102 (or equivalent) and ENGLISH 205

Quantitative Literacy: MATH 105 (or equivalent) and MATH 211 (221, 226, or 231)

Foreign Language Requirement: Refer to the website listed above for details describing satisfaction of this requirement.

GER Distribution Requirements

Arts: 3 cr.

Humanities: 6 cr.

Social Science: 6 cr., only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and 104). Human Resources majors must complete PSYCH 101.

Natural Science: 6 cr., must complete at least two courses, one of which must be a lab or field experience (excluding MATH 211, 221, 226, or MATH 231).

Cultural Diversity: At least 3 credits of a designated cultural diversity course must be taken as part of either the arts, humanities, or social science requirement.

Business Elective Credits
All business majors must complete a minimum number of business elective credits, which varies by major. Accounting, Finance, Human Resources Management, Marketing, and Supply Chain & Operations Management majors are required to complete a minimum of 12 business elective credits; ITM majors are required to complete a minimum of 9 business elective credits.

General Elective Credits
All business majors must complete a minimum number of general elective credits, which varies by major. Finance, Human Resources Management, Information Technology Management, Marketing, and Supply Chain & Operations Management majors are required to complete a minimum of 18 elective credits. Accounting majors are required to complete a minimum of 17 general elective credits.

Business Core Courses (25 cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics*</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 302</td>
<td>Managerial Accounting (non-Accounting Majors)</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**BUS ADM 404**  Cost Management (Accounting Majors)  
**BUS ADM 330**  Organizations*  
**BUS ADM 350**  Principles of Finance*  
**BUS ADM 360**  Principles of Marketing*  
**BUS ADM 370**  Introduction to Supply Chain Management*  
**BUS ADM 391**  Business Law I  
**BUS ADM 600**  Management Analysis  

**TOTAL** 25

* *Business Scholars course option*

### International Business Component (3 cr.)
All business majors must complete one course from the list of international business-related courses: BUS ADM 456 (International Financial Management), BUS ADM 465 (International Marketing), BUS ADM 496 (International Business), BUS ADM 498 (Study Abroad: Business Topics), BUS ADM 535 (Global Information Technology Management), BUS ADM 541 (Cross-Cultural Management), and BUS ADM 551 (International Investment).

### Major (21-24 cr.)
The major prepares students for productive careers in business and provides specialized analytical skills and understanding for professional advancement. See individual majors for required courses. Please check with the Student Services Center (LUB N297) regarding the frequency of major course offerings.

### Business Scholars Program (23 cr.)
The Business Scholars Program allows outstanding business students to build a rich portfolio of academic, extracurricular, and professional achievements. Students will build strong business competencies as well as enhanced communication and quantitative skills. International study is encouraged through the use of two-week study abroad opportunities.

**Eligibility.** To be admitted to the Business Scholars Program, the following requirements must be met: 1) A student must complete 24 credits with an overall cumulative grade point average of 3.3 (on a 4.0 scale), including completion of Math 211 (or equivalent) with a grade of B or better, completion of English 101 and 102 with a grade of B or better (or attainment of placement score of 525 or higher), and completion of Econ 103 with a grade of B or better; and 2) A student must submit an application that includes a one-page essay. The application is available in the Student Services Center (LUB N297).

### Requirements

**Foundation Courses:** BUS ADM 207 (Business Scholars: Introduction to Financial Accounting), BUS ADM 211 (Business Scholars: Introduction to Management Statistics), and BUS ADM 231 (Business Scholars: Introduction to Information Technology Management).

**Core Courses** (choose 2 from the following): BUS ADM 331 (Business Scholars: Organizations), BUS ADM 351 (Business Scholars: Principles of Finance), BUS ADM 361 (Business Scholars: Principles of Marketing), and BUS ADM 371 (Business Scholars: Introduction to Supply Chain Management).

**Business Scholars Seminars:** Complete two 400-level seminar courses or one 400-level seminar course and BUS ADM 498 (Study Abroad: Business Topics).

**Continuation and Graduation Requirements.** Students must maintain a cumulative GPA of 3.25 or higher, complete a minimum of 23 credits of Business Scholars coursework, participate in Business Scholars activities, and meet with the Business Scholars academic advisor during the final semester before graduation to verify degree requirements are met.

### Degree Requirements
Credits. A minimum of 123 credits is required for graduation for all majors. At least 50 percent of the business credit hours required for the business degree must be completed at UWM.

Grade Point Average. Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to maintain a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

Residence Requirements. A minimum of 12 credits must be completed in residence at UWM for each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year timeframe, the students will switch to the most current degree and major requirements. A new 10-year timeframe would then begin.

Accounting
An accounting degree provides graduates with a challenging career path clearly pointed toward growth and opportunity. The new economy is creating new ways of working, living, and growing. Position yourself with a career that understands the questions the new economy poses.

Accounting graduates who take positions in public accounting firms provide management consulting, tax, and audit services to external clients. Other accounting graduates, who take positions with industry and not-for-profit organizations, work as part of the management team providing information for decision support and performance evaluation. Accountants within organizations specialize in tax reporting and planning. Students desiring to become a Certified Public Accountant (CPA) must complete 150 credits. In most cases, a student will combine a 120-credit undergraduate accounting degree with a graduate degree program.

For the major in accounting, 22 credits are required beyond the 4 credits of BUS ADM 201 (Introduction to Financial Accounting) or BUS ADM 207 (Business Scholars: Introduction to Financial Accounting). A minimum 3.00 cumulative GPA, completion of MATH 211 (Survey in Calculus and Analytic Geometry), BUS ADM 230 (Introduction to Information Technology Management) or 231 (Business Scholars: Introduction to Information Technology Management), and a grade of B or better in BUS ADM 201/207 are required to enroll in BUS ADM 301 (Intermediate Accounting). A grade of B or better in BUS ADM 301 is required to enroll in BUS ADM 402, 403, 404 (Business Core course), and 409.

Required Core Courses
All students majoring in accounting must complete the following accounting core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 301</td>
<td>Intermediate Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 402</td>
<td>Advanced Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 403</td>
<td>Consolidations and Government Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 405</td>
<td>Income Tax Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 406</td>
<td>Income Tax Accounting II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 408</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 409</td>
<td>Auditing: Procedures and Applications</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td>25</td>
</tr>
</tbody>
</table>

Business Electives (12 cr.) Students must complete an additional 12 credits in the Lubar School of Business. BUS ADM 400 (Accounting Professional Internship) and BUS ADM 450 (Intermediate Finance) may be utilized in this area.

Additional Notes: Students who have completed BUS ADM 404 will not be allowed to complete BUS ADM 302 for
Finance
The finance major provides the needed tools to work in investment management, corporate financial management, and banking. Position titles for finance majors include loan officers, mortgage review officers, stockbrokers, bond and security analysts, and ultimately, chief financial officers. Finance majors are increasingly taking and passing the Chartered Financial Analysts (CFA) examination. Thorough training in finance and related fields provides the practical and theoretical background needed to succeed in the fast-paced and fascinating world of domestic and international finance.

The finance major highlights two tracks of concentration: investments and corporate finance. Investment management has been revolutionized by rapid advances in computerization. Modern investment theory of portfolio selection, asset pricing models, pricing of options and other derivative securities, and views on the efficiency of security markets has provided major improvements in investment management practice.

Other finance majors may concentrate in corporate finance. Corporate financial officers oversee the efficient allocation of funds within enterprises and borrow funds on the most favorable terms through banks, corporate paper, bonds, or new stock issues. Corporate financial managers examine corporate policies toward dividends, debt leverage, and agency conflicts between firm stakeholders.

For the major in finance, a minimum of 21 credits is required beyond the 3 credits of BUS ADM 350 (Principles of Finance) or BUS ADM 351 (Business Scholars: Principles of Finance). A minimum C grade must be earned in BUS ADM 350/351 to pursue the finance major. It is recommended that BUS ADM 350 be taken in the first semester of junior status. BUS ADM 450 (Intermediate Finance) is a prerequisite or co-requisite for several courses in the finance major. Accordingly, finance majors should enroll in BUS ADM 450 soon after completing BUS ADM 350 or 351.

Required Courses (9 cr.)

BUS ADM 450 Intermediate Finance 3
BUS ADM 451 Investment Finance 3
BUS ADM 455 Financial Institutions 3

Major Electives (12 cr.)
Choose four courses from the following list:

BUS ADM 301 Intermediate Accounting 4
BUS ADM 452 Applied Portfolio Management 3
BUS ADM 453 Corporate Finance Seminar 3
BUS ADM 454 Analysis of Options and Futures 3
BUS ADM 456* International Financial Management 3
BUS ADM 457 Financial Modeling 3
BUS ADM 458 Venture Finance 3
BUS ADM 459 Finance Professional Internship 3
BUS ADM 481 Real Estate Finance 3
BUS ADM 551* International Investments* 3

Total 21-22

The following finance major courses represent foundational material for the CFA Level 1 Exam: BUS ADM 301, 450, 451, 452, 454, 455, and 456 or 551.

Business Electives (12 cr): Students must complete 12 additional credits in the Lubar School of Business. The Finance Internship (BUS ADM 396) may be utilized in this area.
If BUS ADM 456 or 551 is selected as the International Business Component course, students must choose a different finance elective to complete the major.

**Human Resources Management**

Human resource managers are increasingly relied upon to make optimal decisions about such topics as motivation and productivity of employees, compensation, and performance appraisals. This field is particularly challenging due to the diverse interests of management, labor, consumers, regulatory agencies, political constituents, and environmental issues in a competitive, global economy.

This major prepares students for entry-level careers in either generalist or specialist areas of human resources management. The curriculum provides a framework through which students learn how human resource management decisions affect, and are affected by, virtually all other management decisions.

Human Resources Management majors are required to complete PSYCH 101 (Introductory Psychology) as part of their Social Sciences requirement.

The major in human resources management requires 21 human resources management credits beyond the 3 credits of BUS ADM 330 (Organizations) or BUS ADM 331 (Business Scholars: Organizations).

**Required Course (3 cr.)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 444</td>
<td>Human Resources Management*</td>
<td>3</td>
</tr>
</tbody>
</table>

**Core Courses (9 cr.)**

Choose three courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 440</td>
<td>Compensation Management*</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 441</td>
<td>Diversity in Organizations*</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in HRM (Topic: Employment Law)*</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 445</td>
<td>Training and Development in Organizations*</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 448</td>
<td>Staffing Human Resources*</td>
<td>3</td>
</tr>
<tr>
<td>ECON 415</td>
<td>Economics of Employment &amp; Labor Relations</td>
<td>3</td>
</tr>
</tbody>
</table>

**HRM Elective Courses (9 cr.)**

Choose three courses from the Core Courses listed above or from the following list of courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 442</td>
<td>Industrial Psychology</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 443</td>
<td>Special Topics in HRM (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 449</td>
<td>Human Resources Management Professional Internship</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 300</td>
<td>Interviews and Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 327</td>
<td>Instructional Communication for Human Resource Trainers**</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 627</td>
<td>Designing and Developing Communications Courses and Programs</td>
<td>3</td>
</tr>
<tr>
<td>ECON 448</td>
<td>Economics of Human Resources</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 325</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 21

* These HRM major courses represent foundational material for the SHRM Assurance of Learning Certification exam.

** May not complete COMMUN 327 as an approved HRM major elective if BUS ADM 445 has been taken.

**Business Electives (6 cr.)**
Students must complete 12 additional credits in the Lubar School of Business. The HRM Internship (BUS ADM 394) may be utilized in this area.

Information Technology Management
The Information Technology Management (ITM) degree provides undergraduate students with the knowledge needed to develop creative and effective business solutions, based on a thorough comprehension of business problems and opportunities.

To that end, students are provided with a strong technical foundation in contemporary approaches to business application systems development—which includes planning, analysis, design, project management, programming, maintenance, and support—using state-of-the-art technologies, tools, and techniques, as well as an essential background in various business functional areas, such as management, marketing, accounting, finance, supply chain, and economics. In addition, there is an emphasis on the communication skills and teamwork critical to client understanding and satisfaction.

The ITM program is intended to be the first step in a lifelong learning experience in the exciting and dynamic field of ITM. It provides a strong foundation for advancement and success in ITM careers and ventures.

The major requires 24 ITM credits beyond the 3 credits of BUS ADM 230 (Introduction to Information Technology Management) or 231 (Business Scholars: Introduction to Information Technology Management). A grade of C or better in BUS ADM 230/231 is required to enroll in BUS ADM 335; a grade of C or better in BUS ADM 335 is required to enroll in advanced ITM courses.

Required Courses (12 cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 335</td>
<td>Visual System Development</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 432</td>
<td>Object-Oriented Systems Development</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 434</td>
<td>Database Management Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 436</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Major Electives (12 cr.)

Choose at least four of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 433</td>
<td>Information Technology Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 438</td>
<td>Information Technology Management Topics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 439</td>
<td>Information Technology Management Professional Internship</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 530</td>
<td>Introduction to eBusiness</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 531</td>
<td>Developing Web Applications Using Web Services</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 532</td>
<td>Web Development for Open Business Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 533</td>
<td>Information Technology Infrastructure for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 534</td>
<td>Advanced Information Technology Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 536</td>
<td>Business Intelligence*</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 537</td>
<td>Enterprise Systems Concepts and Issues*</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 538</td>
<td>Business Process Integration*</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 539</td>
<td>Web Application Server Development*</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 24

* These ITM courses represent foundational material for the TERP 10 Certification preparation course exam.

Business Electives (9 cr.)
Students must complete 9 additional credits in the Lubar School of Business. BUS ADM 336 (Enterprise Systems and Data Analytics) may be utilized in this area.
Students should refer to the Lubar School of Business website for suggested grouping of electives to complete an emphasis in Enterprise Resource Planning, Project Management, or Web-Based Systems: www.uwm.edu/business.

Marketing
Marketing is a key factor contributing to the success of any business organization. It is the dynamic and creative process of the development, pricing, promotion, and distribution of products and services to satisfy customer and organizational objectives. Effective marketing requires an integration of eclectic knowledge and the skills pertinent to understanding consumer behavior, planning and analyzing marketing research data, thinking strategically, and managing people. Graduates of the marketing major find an exciting and broad spectrum of career opportunities in brand/product management, industrial selling, retailing, sales management, advertising, marketing research, customer-service management, and others.

The major in marketing requires 21 marketing credits beyond the 3 credits of BUS ADM 360 (Principles of Marketing) or BUS ADM 361 (Business Scholars: Principles of Marketing).

Required Courses (9 cr.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 461</td>
<td>3</td>
</tr>
<tr>
<td>Consumer Behavior</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 462</td>
<td>3</td>
</tr>
<tr>
<td>Marketing Research</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 463</td>
<td>3</td>
</tr>
<tr>
<td>Marketing Management</td>
<td></td>
</tr>
</tbody>
</table>

Major Electives (12 cr.)

Choose four courses from the approved list below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 447</td>
<td>3</td>
</tr>
<tr>
<td>Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 460</td>
<td>3</td>
</tr>
<tr>
<td>Retail Management</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 464</td>
<td>3</td>
</tr>
<tr>
<td>Management of Promotion</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>3</td>
</tr>
<tr>
<td>International Marketing*</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 466</td>
<td>3</td>
</tr>
<tr>
<td>Business to Business Sales and Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 467</td>
<td>3</td>
</tr>
<tr>
<td>Marketing Seminar</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 468</td>
<td>3</td>
</tr>
<tr>
<td>Internet Marketing</td>
<td></td>
</tr>
<tr>
<td>BUS ADM 469</td>
<td>3</td>
</tr>
<tr>
<td>Marketing Professional Internship</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>21</td>
</tr>
</tbody>
</table>

* If BUS ADM 465 is selected as the International Business Functional Area course, students must choose a different marketing elective to complete their major.

Business Electives (12 cr.)

Students must complete 12 additional credits in the Lubar School of Business. The Marketing Internship (BUS ADM 397) may be utilized in this area.

Supply Chain and Operations Management
Supply chain management is the integration of all key business processes from original suppliers through end users, and provides products, services, and information that add value for customers and other stakeholders. It includes the supply, storage, and movement of materials, information, personnel, equipment, and finished goods within the organization and between the organization and its environment. The operations function, within the supply chain, relates to the creation of goods and services through efficient and effective use of personnel, material, and machines, and includes acquisition of resources, planning of production and inventory levels, scheduling of work assignments, and the control of production and quality. Recent concepts in supply chain and operations management include lean operations, Six Sigma, ERP, and mass customization.

The major in Supply Chain and Operations Management (SCOM) requires 21 credits beyond the 3 credits of BUS ADM
370 (Introduction to Supply Chain Management) or BUS ADM 371 (Business Scholars: Introduction to Supply Chain Management).

**Required Courses (12 cr.)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 475</td>
<td>Operations Planning and Control</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 476</td>
<td>Logistics and Transportation Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 477</td>
<td>Purchasing and Supply Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 478</td>
<td>Supply Chain Analytics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Elective Courses (6 cr.)**

*Choose two courses from the following list:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 450</td>
<td>Intermediate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 460</td>
<td>Retail Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 466</td>
<td>Business to Business Sales and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 472</td>
<td>Special Topics in Supply Chain and Operations Management (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 479</td>
<td>Supply Chain and Operations Management Professional Internship</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 537</td>
<td>Enterprise Systems Concepts and Issues</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 538</td>
<td>Business Process Integration</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 571</td>
<td>Quality and Six Sigma Tools</td>
<td>3</td>
</tr>
</tbody>
</table>

**Capstone (3 cr.)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 576</td>
<td>Enterprise Planning in the Supply Chain</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total** 21

*The SCOM major required courses represent foundational material for the APICS CPIM certification preparatory course.*

**Business Electives (12 cr.)**

Students must complete 12 additional credits in the Lubar School of Business. The Supply Chain & Operations Management Internship (BUS ADM 398) may be utilized in this area.

**Double Majors**

Students majoring in business administration may pursue a double major in a second area of the Lubar School of Business. The double major can be declared in the Lubar Hall N297; the advising staff in the Student Services Center will explain this option and discuss the curriculum required.

**General Business Minor**

A General Business Minor consisting of 29 credits in business and economics is available to provide a professional business education dimension to non-business students at UWM schools and colleges.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics*</td>
<td>4</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Technology Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
<td>3</td>
</tr>
</tbody>
</table>
BUS ADM 360  Principles of Marketing  3
BUS ADM 370  Introduction to Supply Chain Management  3
Total  29

* Or equivalent.

At least 15 credits for the General Business Minor must be completed at UWM. You must also complete all 29 credits with an overall grade point average of at least 2.25. No courses may be taken on a credit/no credit basis.

**Post-baccalaureate General Business Minor**
The General Business Minor is available at the post-baccalaureate level. Students requiring no more than 6 credits to complete the minor are eligible. At least 15 credits for the post-baccalaureate General Business Minor must be completed at UWM. A minimum of 3 post-baccalaureate credits must be completed at UWM. A minimum overall GPA of 2.250 on all General Business Minor courses must be earned; a minimum UWM post-baccalaureate GPA of 2.000 is required.

Interested students should contact the academic advisors in Room N297 of Lubar Hall, (414) 229-5271, for further details.

**Certificate Programs**

**Certificate in Enterprise Resource Planning**
The Certificate in Enterprise Resource Planning is designed for business students who desire a sequence of courses that focus specifically on the Enterprise Resource Planning (ERP) area. The certificate is designed for non-Information Technology Management majors. This five-course sequence prepares students for the SAP TERP 10 certification exam. The market demand for professionals with skills in this area is high.

To obtain the certificate, a student must complete 15 credits of required coursework while fulfilling all requirements of the baccalaureate degree.

**Required Course (3 cr.)**
BUS ADM 336  Enterprise Systems and Data Analytics  3

**Elective Courses (12 cr.)**
*Choose four of the following courses:*

BUS ADM 536  Business Intelligence  3
BUS ADM 537  Business Systems Concepts and Issues  3
BUS ADM 538  Business Process Integration  3
BUS ADM 539  Web Application Server Development  3
BUS ADM 540  TERP 10 Certification  3
Total  15

*Note: A business student may count no more than 6 credits from a major towards the Certificate in Enterprise Resource Planning.*

**Eligibility.** To apply to the Certificate in Enterprise Resource Planning program, students must be admitted to Lubar School of Business and have completed the foundation courses.

**Graduation.** Students must complete all coursework required for the certificate with at least a 2.25 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in
Certificate in International Business

The Certificate in International Business is designed to offer UWM students the opportunity to complement their major field of study with an additional concentration in international business. Students will take a coordinated series of international courses and receive a certificate that signifies their knowledge in this area.

To obtain the certificate, the student must complete a minimum of 15 approved international business credits while fulfilling all requirements of the baccalaureate degree, including UWM’s foreign language requirement. The certificate is open to all undergraduate business and non-business majors, and to students who have previously earned a bachelor's degree from UWM or any accredited college or university. Non-business majors will need at least 17 prerequisite credits of business coursework, in addition to ECON 103 and 104, to complete this certificate.

Completing the certificate requires the following:

The following three courses:* (9 cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 456**</td>
<td>International Financial Management</td>
</tr>
<tr>
<td>BUS ADM 465**</td>
<td>International Marketing</td>
</tr>
<tr>
<td>BUS ADM 496**</td>
<td>International Business</td>
</tr>
</tbody>
</table>

and at least two additional internationally oriented courses (6 cr.) from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 467**</td>
<td>Marketing Seminar (International topics only)</td>
</tr>
<tr>
<td>BUS ADM 495***</td>
<td>Special Topics in Business (International topics only)</td>
</tr>
<tr>
<td>BUS ADM 497***</td>
<td>Study Abroad (International topics only)</td>
</tr>
<tr>
<td>BUS ADM 498</td>
<td>Study Abroad: Business Topics</td>
</tr>
<tr>
<td>BUS ADM 535</td>
<td>Global Information Technology Management</td>
</tr>
<tr>
<td>BUS ADM 541</td>
<td>Cross-Cultural Management</td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>International Investments</td>
</tr>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
</tr>
<tr>
<td>ECON 454</td>
<td>International Trade</td>
</tr>
<tr>
<td>POL SCI 316</td>
<td>International Law</td>
</tr>
<tr>
<td>POL SCI 330</td>
<td>The Politics of International Economic Relations</td>
</tr>
<tr>
<td>POL SCI 339</td>
<td>European Integration</td>
</tr>
<tr>
<td>POL SCI 343</td>
<td>Asian International Relations</td>
</tr>
<tr>
<td>POL SCI 346</td>
<td>US-Latin American Relations</td>
</tr>
<tr>
<td>GLOBAL 311</td>
<td>Contexts for Global Management</td>
</tr>
</tbody>
</table>

Total 15

* Students majoring in business administration and completing an International Business Certificate can count BUS ADM 496 toward their International Business component.

** A business student may count no more than 6 credits from a major towards a business certificate.

*** Repeatable for credit with a change in topic up to 6 credits.

Note: Non-business students will need at least 17 prerequisite credits from the Lubar School of Business, in addition to ECON 103 and 104, to complete this certificate. BUS ADM 456 requires BUS ADM 350 (which requires ECON 103, ECON 104, BUS ADM 201, and BUS ADM 210 or equivalent); BUS ADM 465 requires BUS ADM 360 (which also
requires ECON 104); and BUS ADM 496 requires BUS ADM 330 (plus 350 and 360).

Students must complete all coursework required for the certificate with at least a 2.50 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

Students interested in the certificate program should contact the Lubar School of Business Student Services Center, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

Certificate in Real Estate
The Real Estate Certificate is designed to offer business students the opportunity to complement their major field of study with an additional concentration in real estate. Students completing the Real Estate Certificate will have coursework in real estate finance, valuation, environmental real estate issues and property development, as well as real estate law. This background, when added to a business major, opens career opportunities to students in mortgage banking and commercial real estate lending, commercial leasing and brokerage, appraisal and valuation, real estate investment analysis, and property development and management.

Completing the certificate requires the following five courses* (15 cr.):

- **BUS ADM 380** Introduction to Real Estate Markets 3
- **BUS ADM 481** Real Estate Finance 3
- **BUS ADM 482** Valuation of Real Estate 3
- **BUS ADM 483** Property Development and Management 3

* Choose one elective course:

- **BUS ADM 389** Real Estate Internship 3
- OR
- **BUS ADM 484** Real Estate Law 3
- OR
- **BUS ADM 485** Environmental Issues in Real Estate 3

* Business students completing a real estate certificate may utilize the courses as part of their business elective requirements. Note: Non-business majors are required to complete ECON 104 (Macroeconomics) in order to fulfill requirements for this certificate. It also is recommended that students complete BUS ADM 201 (Introduction to Financial Accounting) and BUS ADM 350 (Principles of Finance) prior to taking BUS ADM 481 (Real Estate Finance). A business minor also satisfies the prerequisite coursework for non-business students.

All coursework required for the Real Estate Certificate must be completed with at least a 2.50 GPA in order to post the certificate on the transcript. At least half of the credits required for the certificate must be taken in residence at UWM. Real Estate Certificate courses may not be taken on a credit/no credit basis except for BUS ADM 389, Real Estate Internship. Students interested in the certificate program should contact the Lubar School of Business Student Services Center, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Certificate in Entrepreneurship
The Entrepreneurship Certificate is designed to offer UWM students the opportunity to complement their major field of study with an additional concentration in entrepreneurship. Students will take a coordinated series of courses and receive a certificate that signifies their knowledge in this area.

To obtain the certificate, the student must complete a minimum of 15 approved entrepreneurship credits while fulfilling all requirements of the baccalaureate degree. The certificate is open to all students in good standing seeking a bachelor’s degree at the University of Wisconsin-Milwaukee and to all students who have previously received a bachelor’s degree from UWM or any other accredited college or university. Non-business majors will be required to register for and complete 12 additional credits to fulfill the requirements for this certificate.
Required (12 cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 458*</td>
<td>Venture Financing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 466*</td>
<td>Business to Business Sales and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 492</td>
<td>Business Models of New Ventures</td>
<td>3</td>
</tr>
</tbody>
</table>

Elective (3 cr.)

Choose one of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 380</td>
<td>Introduction to Real Estate Markets</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 444*</td>
<td>Human Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 450*</td>
<td>Intermediate Finance</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 462*</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 465*</td>
<td>International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 457*</td>
<td>Marketing Seminar</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 490</td>
<td>Entrepreneur Internship</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 495</td>
<td>Special Topics in Business (Entrepreneurship topics only)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 15

* A business student may count no more than 6 credits from a major towards a business certificate.

Students must complete all coursework required for the certificate with at least a 2.50 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

Students interested in the certificate program should contact the Lubar School of Business Student Services Center, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

Certificate in Investment Management

The Investment Management Certificate is designed to offer business students the opportunity to enhance their major field of study in finance (or additional major including finance) with an additional certificate in investment management. Students completing the Investment Management Certificate will have coursework in investment-related subjects and three special courses comprising intensive research and real-time practical training in investment portfolio management. This training will utilize the David O. Nicholas Applied Finance Lab located in the Sheldon B. Lubar School of Business. Finance majors who have completed this certificate will gain a substantial competitive edge in pursuing a career initially as a financial analyst, or investment advisor, later as an investment portfolio manager, or chief investment officer, and ultimately, as an independent financier.

To obtain the certificate, a student must complete 18 credits of required coursework while fulfilling all requirements of the baccalaureate degree. Due to the intensity of the coursework in the Investment Management Certificate, the program will be of most interest to students pursuing the finance major.

Required Courses (18 cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 452</td>
<td>Applied Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 454</td>
<td>Analysis of Options and Futures</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 551</td>
<td>Global Investments</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 552</td>
<td>Investment Management Practice I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 553*</td>
<td>Investment Management Practice II</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 554</td>
<td>Investment Management Practice III</td>
<td>3</td>
</tr>
</tbody>
</table>

Total 18
Eligibility. To apply to the Certificate in Investment Management program, students must be admitted to the Lubar School of Business and have completed BUS ADM 301 (Intermediate Accounting) and BUS ADM 451 (Investment Finance). These courses must be taken prior to the beginning of the spring semester of the junior year. Admission is competitive and is based on grades earned in BUS ADM 301 and 451, cumulative GPA, and a personal statement.

Internship Requirement. Students completing the certificate also are required to have an internship experience prior to graduation from the certificate program. The internship experience must be approved by the IMCP director.

Graduation Requirements. Students must complete all coursework required for the certificate with at least a 3.0 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

Students interested in the certificate program should contact the Lubar School of Business Student Services Center, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

Joint Degree Program
A student who plans to pursue a joint degree business program with another UWM college or school should seek advising early to design an appropriate program. The student must concurrently complete all requirements for the degree in the area other than the Lubar School of Business, as well as the requirements in the Lubar School of Business, as indicated below in the requirements for a second bachelor’s degree.

A student electing to pursue a joint degree should submit a proposed program of study to the Lubar School of Business as soon as possible.

Academic Regulations
For information on the University-wide Academic Action Policy and honors for scholarship, see Academic Information.

Semester Course Load. A full-time undergraduate student in business administration takes a class load of 12 to 18 credits.

Other Options
Second Bachelor’s Degree. A student with an accredited bachelor’s degree may work toward a second bachelor’s degree in the Lubar School of Business. Interested students should contact the academic advisors in Room N297 of Lubar Hall for further details. The second bachelor degree program is not offered in accounting.

Degree requirements include completion of these BBA requirements: functional courses, administrative analysis and techniques courses, a professional major, and mathematics and economics courses. Of these, at least 30 credits must be earned in residence at UWM while classified as a second degree candidate. Students may receive credit towards a second bachelor’s degree for coursework taken in equivalent areas at other institutions. However, at least 50 percent of the business credit hours required for the business degree must be completed at UWM.

Business Special Student Opportunities. Business Special Student status is available to applicants who have earned a baccalaureate degree at an accredited university or college. Also eligible for consideration are students needing one or two courses to complete a degree from another accredited institution. Business Special Students are eligible to take undergraduate courses only.

Applications should be submitted directly to the Lubar School of Business (Room N297, Lubar Hall) and should include: 1) an official degree transcript of undergraduate work; 2) official transcripts of graduate and other work completed; and 3) a statement of goals and objectives as a special student, along with a listing of requested courses.
Applications are reviewed weekly. Applicants without a degree who wish to take one or two courses in order to graduate from another institution must also submit a statement from their advisor, on official letterhead, verifying the circumstances and courses required.

**Post-baccalaureate Opportunities.** Students who have completed a BBA degree at UWM can return to the campus and complete an additional business major. Students who have completed a bachelor’s degree in business at another accredited university can earn a Certificate of Major in the School. The Certificate of Major consists of a minimum of 12 UWM degree credits. The additional major option is not available in accounting.

**Academic and Career Counseling**
To meet the needs of a diverse student population, the Lubar School of Business schedules classes throughout a 14-hour day, offers access to many internship and part-time job opportunities, and provides an array of services.

**Academic Advising Services.** The Student Services Center, Lubar Hall Room N297, (414) 229-5271, offers academic counseling with professional staff members who are familiar with the curriculum and the special needs of business students. They provide services such as freshman orientation, program advising, course selection, registration guidance, and credit transfer. The Center’s full-time academic advisors are trained to provide all the technical information needed for students to make their own decisions regarding their education.

It is, however, the responsibility of the student to satisfy all requirements for graduation from the Lubar School of Business. All students should meet with an academic advisor at least once a semester. The advisors are a knowledgeable and supportive resource for students. The Center has late hours on Mondays and Tuesdays during the academic year, and the staff is available on an appointment or walk-in basis.

**Career Services.** The Lubar School of Business Career Services Center, located in Room N203 of Lubar Hall, complements the services offered by UWM’s Career Development Center and meets the special needs of business students. Interview facilities are provided to firms hiring Business School graduates, and the center’s staff helps students prepare for professional employment through internship programs and part-time employment referrals. Internship positions and job requests are posted on a special bulletin board, which is maintained by the School as a service to students and to businesses that have specifically requested UWM business students to fill positions. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas.

Online national job searches and an alumni placement service are other services offered. Please call (414) 229-5445 for further information.

**Student Organizations**
There are many professional fraternities, clubs, and honorary organizations for students interested in business administration. These organizations offer the student an opportunity to gain practical understanding from professionals working in a chosen field. Organizations in the Lubar School of Business include:

**Alpha Kappa Psi** – national professional business administration fraternity.

**American College of Healthcare Executives** – student chapter of national organization for students in MS-Health Care Management program.

**American Marketing Association** – campus chapter of the national professional organization of the same name.

**Beta Alpha Psi** – national professional honor society for students majoring in accounting.

**Beta Gamma Sigma** – national scholastic honor society for business administration students.

**Collegiate Entrepreneurs Organization** – national network for students interested in owning and running a business.

**Delta Sigma Pi** – professional fraternity open to all business or economics students.
Graduate Business Association – open to all MBA, MS, and PhD students.

Lubar School of Business Black & Gold Committee – business students interested in enhancing the student experience.

Logistics, Operations and Management Information Systems – professional development and increasing exposure to supply chain and operations management and information technology industries.

National Association of Black Accountants, Inc. – campus chapter of the national professional organization of the same name.

Society for Human Resources Management – campus chapter of the national organization for students interested in careers in personnel/human resources.

Sports Business Association - for undergraduate business students interested in careers within the sports industry.

Student Investment Club – for undergraduate students interested in finance.

Student Academic Appeals
Students may appeal an academic action to the appropriate curriculum committee. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the School’s Student Services Center. Undergraduate student appeals are reviewed by the School’s Undergraduate Program Committee’s Appeals Subcommittee. Students are advised in writing of the decision of the Committee. The Appeals Subcommittee considers individual cases concerning the degree requirements and other academic rules and regulations established by the Lubar School of Business faculty.

The Lubar School of Business has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Student Services Center. As a first step, students must discuss the grievance with the faculty member or administrator within 30 working days from the date of the action that prompted the grievance.

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Senior Associate Dean, Academic Affairs

Mark Mone
Associate Dean, Executive Programs

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Senior Administrative Specialist
UWM Undergraduate Catalog 2014-2015

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EDUCATION

Office of Academic Services
Enderis Hall, Room 209
(414) 229-4721

Office of Professional Education Programs
Enderis Hall, Room 209
(414) 229-4153

soedean@uwm.edu

Degree Programs
Bachelor of Science Community Engagement and Education, Education, Educational Studies, Exceptional Education

Second Undergraduate Degree Community Engagement and Education, Educational Studies, ASL Studies

Master of Science Administrative Leadership, Curriculum & Instruction, Educational Psychology, Exceptional Education, Cultural Foundations of Education

Educational Specialist School Psychology

Doctor of Philosophy Urban Education, Educational Psychology

The School of Education prepares educators who seek careers in schools, and offers training for educators who want to work in nonschool settings such as business, industry, and community agencies.

The faculty provide consulting and inservice assistance to school systems at the local and national levels. Practitioners have opportunities to update knowledge and extend expertise through inservice work and through enriched study in five master’s degree programs and Wisconsin’s only PhD in Urban Education.

Programs in the School of Education leading to professional roles in public schools are approved by the Wisconsin Department of Public Instruction (DPI).

Requirements for Employment, Licensing, or Professional Organizations. Applicants to School of Education programs that involve student teaching, practicum, internship, or other field placements must complete an information disclosure statement and be subject to a criminal background check to comply with placement site requirements and state regulations. Criminal background checks are required by state law to help employers and government officials in making employment and licensing decisions. The Wisconsin Department of Public Instruction (DPI) conducts a check as part of licensing. Agencies regulated by the Division of Health and Family Services must have on file a criminal background check for persons who have access to clients within caregiving organizations, including students.

Students in a program with a clinical experience must undergo a criminal background check at the time of admission to the School of Education, or prior to placement in a major clinical experience if that occurs earlier. The student will be charged the cost of the background check administered through School of Education procedures. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Contact the Office of Professional Education Programs for further details.

Teacher License Applications

Wisconsin Department of Public Instruction License Application Forms and information about applying for a teaching license may be obtained from the Office of Professional Education Programs, Enderis Hall, Room 209, or by calling 229-4153

A departmental recommendation for certification is required. This recommendation is not automatic upon graduation or completion of a post-baccalaureate certification program. After all program requirements have been completed, a student may submit a license application to the Office of Professional Education Programs, Enderis 209, for processing.

The DPI conducts a criminal background check of each applicant for a teaching license. If you have ever lived, worked, or attended school outside of Wisconsin since the age of 18, you are also required to complete fingerprint cards as part of your criminal background check. Based on this information, an applicant may be denied a license even if recommended for certification by the University. The DPI takes 12 to 16 weeks to process an endorsed license.

Advising

Advisors provide students with the academic advice and information that will assist them in completing degree programs and becoming professionals in urban education.
Advisors are available on a walk-in basis, by appointment, by phone, or online.

Field Experience

Students are required to complete a full day/full semester student teaching experience during the final year in the teacher education program. However, many programs require more than one semester of student teaching. For information, please call (414) 229-4352.

Post-Baccalaureate Certification Program

Students who already hold a bachelor's degree and seek certification must meet the following minimum criteria when submitting an application: completion of a bachelor's degree, a cumulative undergraduate grade point average of 2.5, and passing PPST scores. Applicants to the Early Adolescence through Adolescence programs are required to have a minimum GPA of 2.75 in their majors.

Students interested in a post-baccalaureate certification program in Curriculum and Instruction will be denied admission if they have a grade of C- or below in any prior student teaching experience, or if they have been previously counseled out of student teaching and/or have graduated without certification from a teacher education program because of poor performance in student teaching.

Additional criteria may be required for some programs. For specific admission and program information, contact the Office of Academic Services.

Programs of Study Leading to Certification

Early Childhood Level. Teachers are prepared to teach at the approximate ages of birth through 8.

Middle Childhood Through Early Adolescence Level. Teachers are prepared to teach pupils at the approximate ages of 6 through 12 or 13. Students who are interested in pursuing exceptional education certification have the option of doing so as a fifth year post-baccalaureate student.

Early Adolescence Through Adolescence Level. Teachers are prepared to teach pupils at the approximate ages of 10 to 21. Several teaching subjects, such as English, mathematics, science, and social studies, fall into this licensure category

Early Childhood Through Adolescence Level. Teachers are prepared to teach at the ages of birth through 21. Several teaching subjects, such as world languages and English as a Second Language, fall into this licensure category.

Exceptional Education. Teachers are prepared to work at the early childhood, middle childhood through early adolescence, and early adolescence through adolescence levels. The Deaf and Hard of Hearing program prepares students for teaching early childhood through adolescence.

Other School Service Positions: Reading teacher, school counselor, school psychologist, school administrator.

Programs of Study Not Leading to Certification

Community Engagement and Education. A noncertification bachelor’s degree program for community-based educators. For admission and program information, contact the Department of Educational Policy and Community Studies at (414) 229-6552.

Interpreter Training Program (ITP). Offered through the Department of Exceptional Education, this program prepares students to meet the needs of deaf and hard-of-hearing individuals in a variety of settings. It is available as a two-year post-baccalaureate certificate or as part of an undergraduate bachelor’s degree. Contact the department at (414) 229-5251.
DPI Certification Programs in Other Schools and Colleges

Specific degree programs are managed by schools and colleges outside of the School of Education. The certification process is handled by the School of Education.

**Fine Arts Education.** Programs leading to a Bachelor of Fine Arts degree with certification to teach art, dance, music, or theater are offered by the Peck School of the Arts. For additional information, contact the office of the Administrator of Student Affairs, Peck School of the Arts. Post-baccalaureate programs are available in art, music, dance, and theater.

**Communication Sciences and Disorders.** State certification as a speech pathologist requires completion of a master’s degree. Work toward this license should be started at the undergraduate level. Undergraduate students as well as those who already hold a bachelor’s degree should contact the Department of Communication Sciences and Disorders in the College of Health Sciences.

**Instructional Library Media.** The School of Information Studies, in collaboration with the School of Education, offers post-baccalaureate programs leading to State of Wisconsin licensing as Initial Instructional Library Media Specialist and Instructional Library Media Supervisor.

**School Social Work.** The Helen Bader School of Social Welfare, in conjunction with the School of Education, offers a program leading to State of Wisconsin licensing as a school social worker.

**Continuing Education for Teachers**

Teachers who need to earn credits to renew a teaching license to meet local school system or State Department of Public Instruction requirements should contact the Office of Academic Services or Education Outreach, Enderis 579, for information and admission.

**Enrollment Plans for Undergraduate Programs**

Community Engagement and Education students enroll in the School of Education through the Department of Educational Policy and Community Studies. Students planning to major in Educational Studies or in any teacher education program register as pre-education students. They follow the general curriculum requirements of their proposed major in the School of Education and are advised by faculty and staff in the School. All academic actions such as adds, drops, permission to continue, withdrawals, etc., are approved by designated staff in the School of Education.

**Admission**

Students in all programs except Community Engagement and Education must apply for admission to the School of Education. Students who apply to the School of Education must meet the minimum admission requirements of the School and of their program that exist at the time of their admission application.

**Individual Program Requirements.** *Specific program requirements are listed in each program section.* To be admitted, students must apply to and be accepted into a specific program. Academic major/minor forms for early adolescence through adolescence education majors and proposal forms for all other programs require the faculty advisor’s signature prior to submitting the application to be accepted into a specific program. Applicants should follow specific admission procedures for their program.

**Application Submission.** Application periods for admission vary by program. Most programs have September and January deadlines. Contact the Office of Academic Services each semester for details.

**Application Review.** All applications are reviewed by faculty of the appropriate department. If admission is deferred or denied, the student may consult with the appropriate department chairperson and/or request a hearing under appeals procedures. The School of Education reserves the right to limit admission due to staffing and space limitations. Enrollment as a pre-education student and/or meeting the minimum requirements does not guarantee admission to a professional education major in the School of Education.
A student who transfers from one program to another within the School must reapply and meet requirements in effect for that program at the time of transfer.

Admission requirements for the Educational Studies major are listed at the end of the School of Education section of the catalog.

**Reentering Students.** Students who do not maintain continuous enrollment/registration at the university should meet with their advisor upon reentry. It is possible that the program requirements were revised in their absence, causing a revision of their program requirements.

If a student is out for more than one full semester (not including Summer Session), the student must meet the program and graduation requirements in effect at the time of his or her return. Options will be discussed on a case-by-case basis.

An admitted student who has not been enrolled for two or more semesters may be required to reapply for admission. Students admitted into the post-baccalaureate program have five years from the semester of admission to complete their program.

*Please refer to specific programs for additional information on admission requirements.*

**Degree Requirements**

1. Satisfactory completion of a minimum of 128 credits (120 credits for Community Engagement and Education) and the requirements of the student’s curriculum.

2. Satisfactory completion of the School of Education core curriculum requirements and the University’s General Education Requirements. See individual department and program general education core curriculum requirements for the credits required and the distribution.

3. For professional education certification programs, a minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as any grades earned in student teaching or field experiences. General education coursework and/or electives which do not fulfill requirements towards certification will not be included in the cumulative GPA calculation.

4. Completion of the last year of work (30 credits) in residence at UW-Milwaukee. Special permission to earn credits on another campus of the UW System, at another institution, or through correspondence work from the UW Extension must be obtained in advance. Students should meet with their academic advisor. Students who transfer to UWM from any accredited institution must take a minimum of 18 hours of graded credits at UWM to establish a GPA for graduation.

**Substitution for Requirements.** Any variations from the approved curriculum in the student’s program must be approved in writing by the student’s faculty advisor, department chair, and the Associate Dean for Academic Affairs. This must be done in advance of course selection.

**Change in Requirements.** When a change in program or graduation requirements is adopted, students currently enrolled may complete either the new requirements or those in effect at the time of their admission to the School of Education, but not a combination. Changes in state requirements for teacher certification may lead to changes in requirements in a student’s program. Satisfaction of state requirements is necessary for eligibility for teacher certification.

**Advisement Report.** Students who have been admitted to a major will have an Advisement Report indicating course requirements completed as well as those needed. The Advisement Report assists students in planning future semesters, and is one of the documents used in clearing Education students for graduation. Community Engagement and Education students contact the Department of Educational Policy and Community Studies for their summaries and graduation clearance.
Curriculum for Teacher Education Programs

All teacher education programs in the School of Education follow a basic pattern of required courses as described in the following sections. For each standard, a set of knowledge and performance indicators is given to students so that they understand the expectations of the program.

**Portfolio.** Each student will be required to keep a portfolio of evidence to document progress toward the standards. The portfolio is developmental and will be reviewed at several points during a student's program to ensure that appropriate progress is being made. The portfolio will play a critical part in determining final recommendations for certification.

**Praxis II Test.** The State of Wisconsin requires all certification students to pass the Praxis II exam. This test covers the subject matter that the teacher is expected to teach. Students should consult an advisor or program director about the specific exam from the Praxis II series that is required for their certification. A passing score on the appropriate content test is required for admission into student teaching.

**edTPA (Teacher Performance Assessment).** The State of Wisconsin requires all certification students who complete after August 31, 2015 to pass the edTPA. The edTPA is a multiple-measure assessment system aligned to state and national standards. Students should consult an advisor or program coordinator for specific information.

**Foundations of Reading Test.** Students in the Early Childhood, Middle Childhood-Early Adolescence, Special Education, Reading Teacher, and Reading Specialist certification programs will be required to pass the Foundations of Reading Test. This applies to any license received by the Wisconsin DPI starting January 1, 2014. Students should consult an advisor or program coordinator for specific information.

**General Requirements.** The core curriculum requirement, which is part of the general education component of all teacher education programs, includes credits from the categories of fine arts, humanities, natural sciences, and social sciences. General requirements are chosen to provide a broad general education background.

**Subject Specialization Requirements.** See individual program requirements.

**Human Relations Certification Requirement.** The Human Relations Requirement provides prospective teachers with awareness and understanding of intercultural relations within the educational setting. The requirement is met with coursework and classroom experience.

Effective July 1, 1992, a license to teach may not be granted unless the applicant has received instruction in the study of minority group relations, including instruction in the history, culture, and tribal sovereignty of American Indian tribes and bands located in this state. Currently, this requirement is met through satisfactory completion of Ethnic 203, Anthro 213, Hist 263, or English 276, or seminar attendance. Questions regarding this requirement should be directed to the student’s academic advisor.

**Exceptional Education Requirement.** Persons applying for an initial license to teach any subject in Wisconsin elementary and secondary schools must demonstrate knowledge and understanding of procedures used for assessing and providing education for children and youth with disabilities, including the roles and responsibilities of regular and special education providers. See the program requirements for your teaching major for information about meeting the requirement.

**Statutory Requirements for Teachers of Early Adolescence Through Adolescence Science and Social Studies.** A student may satisfy the requirement in environmental education by taking either Geog 350, CES 471, or CES 201, or by submitting evidence that the statutory requirement has been otherwise fulfilled. Teachers of science must have coursework in the history and philosophy of science. Early adolescence through adolescence social studies students may satisfy the requirement in cooperative marketing and consumers’ cooperatives by taking Currins 313, or by submitting evidence that the statutory requirement has been otherwise fulfilled. Econ 100 is a prerequisite for Currins 313. The Phonics Requirement is met with a variety of Curriculum and Instruction courses.
Statutory Requirement for Early Childhood and Middle Childhood Through Early Adolescence Teachers.
Effective July 1, 1985, adequate preparation in conservation of natural resources (environmental education) is required for these majors. For an Early Childhood major, the requirement is met through satisfactory completion of CURRINS 326. This requirement is satisfied by coursework in the Middle Childhood through Early Adolescence program.

Student Teaching

Student teaching experiences are designed to promote a student’s ability to integrate learning and practice and to give the student opportunities to teach independently and collegially in urban school settings. Students are required to complete a full-day/full-semester student teaching experience during the final year in the teacher education program. However, many programs require more than one semester of student teaching.

Early Childhood. Please see an advisor or program coordinator for specific requirements.

Middle Childhood Through Adolescence. Please see an advisor or program coordinator for specific requirements.

Early Adolescence Through Adolescence. Early Adolescence through Adolescence program students typically complete a middle school student teaching placement as their first placement in conjunction with subject area methods, middle school curriculum, and "Fieldwork in Reading in the Content Area." During the final placement they are assigned to a high school for a full-day, full-semester experience in which the calendar and daily schedule of the cooperating school district is followed. Assignments and grade levels may vary by program.

Exceptional Education. Students are required to complete a full semester of student teaching unless they have a current Wisconsin teaching license. Field experiences are required for most programs.

Student Teaching: General. The number of student teachers that each program can accommodate in any given semester is limited by the availability of approved placements and supervisors; therefore, departments in the School of Education reserve the right to limit their student teaching enrollment. Admission to the School of Education does not automatically guarantee admission to student teaching.

The field experience coordinator for the School of Education makes all necessary administrative arrangements for student teaching placements and communicates placement information to students in writing. Because of the number of individuals involved in the placement process, and because established procedures have been approved by cooperating school personnel, students should not contact schools to arrange placements.

Students must earn a grade of C or better in all student teaching courses to be eligible for recommendation for certification.

Application for Placement. Students who plan to register for any student teaching course in the fall or spring must apply by February 15 of the academic year preceding placement(s). Applications for student teaching are available in the Office of Professional Education, Enderis 209, or online at www4.uwm.edu/soe/assets/scripts/currins/advising/Request-for-Student-Teaching-Placement-2014-15.pdf.

Student Teaching Eligibility Requirements for All Programs. Listed below are the minimum eligibility requirements for admission to student teaching. Some subject areas require a higher grade point average and/or additional coursework as prerequisites to student teaching.

1. Admission to a School of Education Certification Program.

2. Completion of all required coursework including teaching methods and pre-student teaching fieldwork as outlined for each program during the semester prior to student teaching.

3. An overall cumulative GPA of at least 2.5 and a GPA requirement of the student's specific program. A GPA of 2.75 in all professional and major/minor courses is required to qualify for student teaching.
4. Passing score on the Praxis II content test. For Exceptional Education programs, a passing score is required for admission to the final semester of teaching experience.

5. Removal of all F or I (incomplete) grades in courses that count toward graduation or certification.

6. Evidence of freedom from tuberculosis.

7. Some school districts require a criminal background check prior to accepting a student for clinical placement in the district.

Please refer to specific programs for additional requirements.

Certification Requirements

Applicants for certification in the state of Wisconsin are required to achieve a minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as any grades earned in student teaching or field experiences. General education coursework and/or electives which do not fulfill requirements towards certification will not be included in the cumulative GPA calculation.

Applicants for certification in the state of Wisconsin are subject to a criminal background check prior to the granting of a teaching license.

The State of Wisconsin requires a content test for certification. This test covers the subject matter that the teacher is expected to teach. Students should consult an advisor or program director about the nature of the tests that are required.

Academic Regulations

For information on academic actions for unsatisfactory grades and honors for scholarship, see Academic Information, University-Wide Academic Action Policy and Honors for Scholarship.

Semester Course Load. An overload for undergraduate and special students in the School of Education is 18 or more credit hours during a regular semester. Students who want to take an overload during a regular semester should contact their academic advisor.

Any student in the School of Education who takes an unapproved overload will not be permitted to count the overload credits toward graduation and/or certification. The particular credits that would not be counted toward graduation will be designated by the student’s advisor and approved by the Associate Dean for Academic Affairs.

Substitution for Requirements or Courses. Any variations from the approved curriculum in the student’s program must be approved in writing by the student’s faculty advisor, department chair, and the Associate Dean for Academic Affairs. This must be done in advance of course selection.

Special Opportunities

Departmental Examinations. Departments may grant degree credit to a student who, instead of taking a course, requests and passes an examination administered by the department on the content of that course.

Permission to take such examinations must be obtained from the Associate Dean for Academic Affairs, Enderis Hall 599, who will require a recommendation from the department chairperson or program director to whom evidence of work justifying an examination must be presented by the student.

Study Abroad. Qualified students can complete equivalent coursework in another country. For information, consult the Office of Academic Services, Enderis Hall 209.
Interdisciplinary Courses

Faculty and Staff

Administration

Carol Colbeck
Dean

Hope Longwell-Grice
Associate Dean, Academic Affairs

Cindy Walker
Associate Dean, Research and Engaged Scholarship

Administrative Leadership

Mesut Akdere, Assoc. Prof., PhD
University of Minnesota

Delbert K. Clear, Assoc. Prof. Emeritus

Simone Conceição, Assoc. Prof., PhD
University of Wisconsin-Madison

Barbara Daley, Prof., PhD
Cornell University

Decoteau J. Irby, Asst. Prof.
Temple University

James Fisher, Assoc. Prof. Emeritus, PhD

Tom Joynt, Clinical Assoc. Prof., PhD
University of Wisconsin-Madison

William Kritek, Prof. Emeritus, PhD

Larry Martin, Prof., PhD
University of Wisconsin-Madison

Liliana Mina, Asst. Prof., PhD
Michigan State University

Susana Muñoz, Asst. Prof., PhD
Iowa State University

Latish Reed, Asst. Prof., PhD
University of Wisconsin-Madison

Gail Schneider, Prof., PhD
Regina O. Smith, Assoc. Prof., PhD
Michigan State University

Alfonzo Thurman, Prof., PhD
University of Wisconsin-Madison

Curriculum and Instruction

Barbara Bales, Assoc. Prof., PhD
University of Wisconsin-Madison

Lori Becker, Lect., MA
Silver Lake College

Craig Berg, Prof., PhD
University of Iowa

Helena Curtain, Assoc. Prof. Emerita, PhD

Nancy File, Assoc. Prof., PhD
Purdue University

Jeremy Garcia, Asst. Prof., PhD
Purdue University

Randolph Goree, Sr. Lect., MA
University of Wisconsin-Milwaukee

Maria Hamlin, Asst. Prof., PhD
University of Michigan

Richard Haney, Prof. Emeritus, PhD

Jeffrey Hawkins, Assoc. Prof., PhD
University of San Francisco

Vicki Herman, Lect., M.S.
University of Wisconsin-Milwaukee

Angel Hessel, Lect., MA
University of Wisconsin-Milwaukee

D. J. Himes, Lect., MED
North Carolina State University

Patrick Hopfensperger, Lect., M.S.
University of Wisconsin-Milwaukee

DeAnn Huinker, Assoc. Prof., Ed.D.
University of Michigan

Mary Jett, Prof. Emerita, PhD

Karen Kelly Rigoni, Assoc. Prof., PhD
University of South Florida

Henry Kepner, Prof. Emeritus, PhD

Hope Longwell-Grice, Assoc. Prof., PhD
University of Delaware

Laura Luebke, Assoc. Prof. Emerita, PhD

Susan Masland, Assoc. Prof. Emerita, PhD

Tania Mertzman, Assoc. Prof., PhD
University of South Florida

Lawrence Moburg, Assoc. Prof. Emeritus, EdD

Jennifer Mueller, Assoc. Prof., PhD
University of Michigan

Donald Neuman, Prof. Emeritus, PhD

Donna Pasternak, Assoc. Prof., PhD
New York University

Bette Peltola, Prof. Emerita, PhD

Tracy Posnanski, Assoc. Prof., PhD
University of Wisconsin-Milwaukee

Linda Post, Assoc. Prof., PhD
Syracuse University

Marleen Pugach, Prof. Emerita, PhD

Randall Ryder, Prof. Emeritus, PhD

Felicia Saffold, Assoc. Prof., EdD
Cardinal Stritch University

Mark Schug, Prof. Emeritus, PhD

Ray Scolavino, Sr. Lect., PhD
University of Wisconsin-Milwaukee

Tom Scott, Lect., PhD
University of Wisconsin-Milwaukee

Ruth Short, Assoc. Prof., PhD
University of Minnesota

Cyrus Smith, Assoc. Prof. Emeritus, EdD

John Stewig, Prof. Emeritus, PhD

Debora Wisneski, Assoc. Prof., PhD
University of Texas at Austin
John Zahorik, Prof. Emeritus, PhD

EDUCATIONAL POLICY AND COMMUNITY STUDIES

Carlton Beck, Prof. Emeritus, PhD
Frank Besag, Prof. Emeritus, PhD

Michael Bonds, Assoc. Prof., PhD
University of Wisconsin-Milwaukee

Edgar Epps, Prof., PhD
Washington State University

Raquel Farmer-Hinton, Assoc. Prof., PhD
University of Illinois at Urbana-Champaign

Walter Farrell, Prof. Emeritus, PhD

Ian Harris, Prof. Emeritus, EdD

Julie Kailin, Assoc. Prof., PhD
University of Wisconsin-Madison

Ronald Podeschi, Prof. Emeritus, PhD

Marie Sandy, Asst. Prof., PhD
Claremont Graduate University

Aaron Schutz, Assoc. Prof., PhD
University of Michigan

Rajeswari Swaminathan, Assoc. Prof., PhD
Syracuse University

Javier Tapia, Assoc. Prof., PhD
University of Arizona

Gary Williams, Adj. Asst. Prof., PhD
University of Wisconsin-Milwaukee

Henry Woessner, Assoc. Prof. Emeritus, PhD

EDUCATIONAL PSYCHOLOGY

Leah Arndt, Asst. Prof., PhD
University of Wisconsin-Madison

Patricia Arredondo, Prof., EdD
Boston University

Razia Azen, Assoc. Prof., PhD
University of Toronto

Thomas Baskin, Assoc. Prof., PhD
University of Wisconsin-Madison
Shannon Chavez Korell, Asst. Prof., PhD
The Pennsylvania State University

Adrian Chan, Prof. Emeritus, PhD

Roberta Corrigan, Prof. Emerita, PhD

Jerry Davis, Prof. Emeritus, PhD

Anne Ellison, Prof. Emerita, EdD

Nadya Fouad, Distinguished Prof., PhD
University of Minnesota

Gerald Gleason, Prof. Emeritus, PhD

Anthony Hains, Prof., PhD
University of Notre Dame

Kyongboon Kwon, Asst Prof., PhD
University of Georgia

Susie Lamborn, Assoc. Prof., Ph.D
University of Denver

Ronald H. Lingren, Prof. Emeritus, PhD

Wen Luo, Asst. Prof., PhD
Texas A&M University

Sandra Toro Martell, Asst. Prof., PhD
University of Washington

Ann Meyer, Prof. Emerita, PhD

Doug Mickelson, Assoc. Prof. Emeritus, PhD

Markeda Newell, Asst. Prof., PhD
University of Wisconsin-Madison

Diane Pollard, Prof. Emerita, PhD

Martin Sapp, Prof., Ed.D.
University of Cincinnati

Philip Smith, Prof. Emeritus, PhD

Karen Stoiber, Prof., PhD
University of Wisconsin-Madison

John Surber, Assoc. Prof. Emeritus, PhD

Cindy Walker, Prof., PhD
University of Illinois
Stephen Wester, Prof., PhD
University of Florida

Kenneth Wodtke, Assoc. Prof. Emeritus, PhD

Bo Zhang, Assoc. Prof., PhD
University of Pittsburgh

EXCEPTIONAL EDUCATION

Maggie Bartlett, Asst. Prof., PhD

Francis Blair, Prof. Emeritus, PhD

Elizabeth Drame, Assoc. Prof., PhD
Northwestern University

Dave L. Edyburn, Prof., PhD
University of Illinois

Eve Dicker Eiseman, Clinical Assoc. Prof. Emerita

Alison Ford, Assoc. Prof., PhD
University of Wisconsin-Madison

Richard Fox, Assoc. Prof. Emeritus, PhD

Elise Frattura, Assoc. Prof., Ed.D.
University of Wisconsin-Madison

Susan Gruber, Assoc. Prof. Emerita, EdD

Ann Hains, Prof. Emerita, PhD

Paul Haubrich, Assoc. Prof. Emeritus, PhD

Anita Hermann, Asst. Prof. Emerita, MS

Maureen Keyes, Assoc. Prof., PhD
University of Wisconsin-Madison

Mary McLean, Prof., PhD
University of Wisconsin-Madison

James Olson, Prof. Emeritus, EdD

Amy Otis-Wilborn, Prof., PhD
University of Kansas

Laura Owens, Assoc. Prof., PhD
University of Wisconsin-Madison

Nancy Rice, Assoc. Prof., PhD
Syracuse University

Joanne Vandenbusch, Clinical Assoc. Prof. Emerita, MS
About Freshwater Sciences

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas: Freshwater System Dynamics; Human and Ecosystem Health; Freshwater Technology; and Freshwater Economics, Policy, and Management. Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic, and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills, and experience to anticipate and address the freshwater issues of the future.

Undergraduate Courses
Inter-School/College Programs

- Applied Mathematics and Computer Science, Bachelor of Science in
- Food Studies Certificate
- Course: Food Studies (FOOD)
- Forensic Sciences Certificates
- Global Studies, Bachelor of Arts in
- Courses: Global Studies (GLOBAL)

Bachelor of Science in Applied Mathematics and Computer Science

Bruce Wade, Professor of Mathematics, Coordinator, EMS E447, (414) 229-5225, wade@uwm.edu

This course of study leads to a Bachelor of Science in Applied Mathematics and Computer Science awarded jointly by the College of Letters & Science and the College of Engineering & Applied Science. As such, it contains in-depth study in both colleges. The degree retains the flavor of a liberal arts degree through humanities and social science course requirements that go beyond the minima required by the University’s general education requirements. The liberal arts coursework will enhance the analytical skills that are the focus of the applied mathematics portion of the curriculum. The computer science coursework will both strengthen the application of mathematics in problem solving and, in turn, be enhanced by the analytical skills acquired through the applied math coursework.

Students who intend to complete the program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of B (ready for precalculus) or better.

Admission

As soon as students realize their interest in the AMCS degree, they should consult with an AMCS advisor either in CEAS or L&S, who assists in planning a program. Students may be given the AMCS classification at any point in their studies; however, they are not formally admitted to the major until their junior year. Admission to the junior year of the program requires a GPA of at least 2.5 in 8 credits of mathematics courses at or above the 200 level and 6 credits of computer science courses at or above the 200 level.

General Requirements

For the BS (AMCS) degree, 120 credits are required, of which 80 must be taken from the College of Letters & Science. Students must satisfy the general education requirements (GER) of the university. They must complete at least 6 credits each from humanities and social sciences, 3 credits from the arts, and 6 additional credits in any of these three areas or in foreign languages. Students also must take at least 8 credits of natural sciences outside of mathematics or mathematical statistics, including at least one laboratory course from biological sciences, chemistry, or physics. A cultural diversity course must be included among the humanities and social science courses selected.

An overall GPA of 2.0 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.0 GPA on all coursework attempted, including transfer work. A minimum 2.0 GPA must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

- The last 30 credits;
- 45 of the last 60 credits;
- Any 90 credits.

Core Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 201</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>4</td>
</tr>
<tr>
<td>MATH 231, 232, 233</td>
<td>Calculus and Analytic Geometry</td>
<td>4 each sem (or equivalent)</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 341</td>
<td>Seminar: Introduction to the Language and Practice of Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>
Advanced Requirements

At least 48 credits selected from COMPSCI, MATH, and MTHSTAT's courses at the 300 level or above, beyond those listed above, including the following:

COMPSCI 351  Data Structures and Algorithms  4
COMPSCI 535  Algorithm Design and Analysis  3

9 additional credits in COMPSCI

12 credits from MATH and/or MTHSTAT, including one of the following two-course sequences:

MATH 313/314  Linear Programming and Optimization  3 cr each sem
MATH 320/322  Introduction to Differential Equations/Introduction to Partial Differential Equations  3 cr each sem
MATH 413/414  Introduction to Numerical Analysis/Numerical Analysis  3 cr each sem
MATH 521/522  Advanced Calculus  3 cr each sem
MATH 531/535  Modern Algebra/Linear Algebra  3 cr each sem
MATH 631/632  Modern Algebra  3 cr each sem
MTHSTAT 361/362  Introduction to Mathematical Statistics I & II  3 cr each sem

Potential Course of Study

Fall I: 14 credits

COMPSCI 201  Introductory Computer Programming  3
ENGLISH 101  Introduction to College Writing  3
MATH 116  College Algebra  3
MATH 117  Trigonometry  2

Humanities or Social Science  3

Spring II: 17 credits

COMPSCI 251  Intermediate Computer Programming  4
ENGLISH 102  College Writing and Research  3
MATH 231  Calculus and Analytic Geometry  4
Arts  3

Humanities or Social Science  3

Fall III: 17 credits

COMPSCI 315  Introduction to Computer Organization and Assembly Language Programming  3
COMPSCI 351  Data Structures and Algorithms  4
MATH 232  Calculus and Analytic Geometry  4
MATH 341  Seminar: Introduction to the Language and Practice of Mathematics  3

Humanities or Social Science  3

Spring IV: 14-15 credits

COMPSCI 317  Discrete Information Structures  3
MATH 233 Calculus and Analytic Geometry 4
MATH 234 Linear Algebra and Differential Equations 4

Natural Science with lab 3-4

Fall V: 15 credits

COMPSCI 535 Algorithm Design and Analysis 3
COMPSCI or MATH elective 6
MATH sequence course 3
Natural Science 3

Spring VI: 15 credits

COMPSCI advanced elective 3
MATH sequence course 3
MATH advanced elective 3
MATH advanced elective 3
MATH or COMPSCI elective 3

Fall VII: 15 credits

COMPSCI advanced elective 3
MATH advanced elective 3
Humanities or Social Science 6
MATH or COMPSCI elective 3

Spring VIII: 13-15 credits

COMPSCI or MATH advanced electives 12
Elective 1-3

(Note: Select a sufficient number of elective credits from the College of Letters & Science to earn a minimum of 80 L&S credits.)

Food Studies Certificate Program

Lori Klos, Assistant Professor, Kinesiology, Co-Coordinator, END 455, (414) 229-3162, neighbol@uwm.edu
Larry Kuiper, Associate Professor, French, Co-Coordinator, CRT 782, (414) 229-5966, kuiper@uwm.edu
Kate Powers, Advisor, NWQ-B 5420, (414) 229-6686

The interdisciplinary undergraduate certificate program in Food Studies explores the many facets of food, from the field and sea to the table, through the lenses of the arts, humanities, and natural and social sciences. Combining courses in the Liberal Arts and Health Sciences, it addresses the production and consumption of food and its symbolic and ideological meanings, across cultures and over time, from the beginning of agriculture to globalization.

The Certificate in Food Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (nondegree students) but who have a strong interest in this subject. To be admitted to the university as nondegree students, individuals must meet regular university admission requirements. The Certificate is awarded jointly by the College of Health Sciences and the College of Letters and Science.
Students concurrently enrolled in a degree program who successfully complete the certificate program requirements will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon completion of the program requirements. Graduate students are eligible to pursue the Food Studies certificate concurrently with their graduate studies, and they will be awarded the certificate upon completion of the program requirements.

Program Requirements

To earn the certificate, students must complete 18 credits in approved Food Studies courses, with a minimum grade point average of 2.5, including:

- FOOD 101: Introduction to Food Studies (3 cr), with a grade of C or better.
- At least 12 credits selected from the approved courses list, including one course each in the humanities and the social sciences.
- At least one course in natural or health sciences, nursing, or engineering.
- A senior research course, taken either as FOOD 699 (independent study) or as a senior research or capstone course offered by another program and approved as a Food Studies content course.

Of the 18 required credits, at least 9 credits must be taken at the advanced level (courses numbered 300 and above) and at least 9 credits must be taken in residence at UWM. No more than 9 credits in one curricular code may be counted towards the certificate. Students are limited to 3 credits in independent studies and 3 credits in internships.

Approved Electives

The following courses are approved to count toward the Food Studies Certificate. Additional courses may be found each semester in the Schedule of Classes. In addition, students are encouraged to consult the Program Coordinators and to petition for the inclusion of relevant courses as appropriate.

ANTHRO 150   Multicultural America (New Orleans section)
ANTHRO 156   Food and Culture
ANTHRO 441   Nature, Knowledge, and Technoscience in Anthropological Perspective
ANTHRO 540   Applications of Anthropology (New Orleans section)
BMS 232   Introduction to Nutrition
BMS 290   Topics in Health Sciences: “Introduction to Food Principles and Preparation”; “Life Cycle Nutrition”
BMS 332   Clinical Nutrition
COMPLIT 350   Topics in Comparative Literature: “Discovering Food”
COMPLIT 360   Seminar in Literature and Cultural Experience: “Cuisine, Community, and Literature”
ENGLISH 625   Seminar in Literary History: “Eating English Literature”
FOOD 199   Independent Study
FOOD 289   Internship in Food Studies, Lower Division
FOOD 297   Study Abroad: (Subtitle)
FOOD 299   Ad Hoc: (Subtitle)
FOOD 489   Internship in Food Studies, Upper Division
FOOD 497   Study Abroad: (Subtitle)
FOOD 499   Ad Hoc: (Subtitle)
FOOD 699   Advanced Independent Study
FRENCH 145   Views of France: “Learning French Culture Through Cuisine”
FRENCH 432   Seminar in French and Francophone Cultures: “Cuisines et cultures françaises”
HIST 600   Seminar in History: “Food, Culture, and Power”; “Food and the City”
ITALIAN 256   Introduction to Italian Food Studies: A Cultural History
ITALIAN 456   Topics in Italian Food Studies: (Subtitle)
KIN 241   Why We Eat What We Eat: An Ecological Approach
KIN 290   Special Topics in Human Movement Sciences: “Nutrition for the Health Professions”
URB STD 360   Perspectives on the Urban Scene: “You Are Where You Eat: Urban Food Geographies”

COURSES

Forensic Sciences Certificate Program

- Certificate in Death Investigation
- Certificate in Forensic Science
- Certificate in Forensic Toxicology
The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the Colleges of Letters & Science and Health Sciences and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

Curricular Requirements

To receive one of the following certificates, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.5 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 (Chemical Science) or equivalent and BIO SCI 100 (Survey of Zoology) or equivalent.

Note: The abbreviation ABCC is used in the course listings below to represent the four departments/programs that are jointly offering these courses: ANTHRO/BMS/CHEM/CRM JST; students may enroll in the courses under any of the four curricular areas.

Certificate in Death Investigation

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABCC 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ABCC 285</td>
<td>Medicolegal Death Investigation</td>
<td>3</td>
</tr>
<tr>
<td>ABCC 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 110</td>
<td>Introduction to Criminal</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
</tbody>
</table>

One of:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 610</td>
<td>Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>HCA 212</td>
<td>Drugs Used and Abused</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABCC 585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3</td>
</tr>
<tr>
<td>ABCC 589</td>
<td>Internship in Death Investigation</td>
<td>1-3</td>
</tr>
<tr>
<td>ABCC 594</td>
<td>Internship in Forensic Science</td>
<td>1-3</td>
</tr>
<tr>
<td>ANTHRO 404</td>
<td>Seminar in Human Evolutionary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 539 (663)</td>
<td>Laboratory Techniques in Molecular Biology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 194</td>
<td>First-Year Seminar (with forensic subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 524</td>
<td>Intermediate Analytical Chemistry</td>
<td>3-5</td>
</tr>
<tr>
<td>CHEM 602</td>
<td>Biochemistry: Cellular Processes</td>
<td>3</td>
</tr>
<tr>
<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
<td>1</td>
</tr>
<tr>
<td>BMS 560</td>
<td>Molecular and Genetic Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>BMS 561</td>
<td>Molecular Diagnostics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BMS 620</td>
<td>Forensic Pathology</td>
<td>2</td>
</tr>
</tbody>
</table>

Certificate in Forensic Science

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABCC 281</td>
<td>Dead Men Do Tell Tales: An Introduction to Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>ABCC 481</td>
<td>Criminalistics</td>
<td>3</td>
</tr>
</tbody>
</table>
CRM JST 110  Introduction to Criminal Justice  3
CRM JST 480  Criminal Evidence and Investigation  3

One of:
ANTHRO 403  The Human Skeleton  3
ANTHRO 404  Seminar in Human Evolutionary Physiology  3

One of:
BMS 610  Pharmacology  3
HCA 212  Drugs Used and Abused  3

One of:
BIO SCI 539 (663)  Laboratory Techniques in Molecular Biology  4
CHEM 602  Biochemistry: Cellular Processes  3
BMS 560/561  Molecular and Genetic Diagnostics/Molecular Diagnostics Laboratory  3

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

ABCC 285  Medicolegal Death Investigation  3
ABCC 585  Internship in Forensic Toxicology  1-3
ABCC 589  Internship in Death Investigation  1-3
ABCC 594  Internship in Forensic Science  1-3
ANTHRO 405  Forensic Anthropology  3
CHEM 194  First-Year Seminar: (with forensic subtitle)  3
CHEM 524  Intermediate Analytical Chemistry  3-5

One of:
BMS 555  Toxicology and Therapeutic Drug Monitoring  1
BMS 620  Forensic Pathology  2

Certificate in Forensic Toxicology

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:
ABCC 281  Dead Men Do Tell Tales: An Introduction to Forensic Science  3
ABCC 481  Criminalistics  3
CHEM 524  Intermediate Analytical Chemistry  3-5
BMS 610  Pharmacology  3
CRM JST 110  Introduction to Criminal Justice  3
CRM JST 480  Criminal Evidence and Investigation  3

One of:
ANTHRO 403  The Human Skeleton  3
ANTHRO 404  Seminar in Human Evolutionary Physiology  3

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

ABCC 285  Medicolegal Death Investigation  3
ABCC 585  Internship in Forensic Toxicology  1-3
ABCC 589  Internship in Death Investigation  1-3
ABCC 594  Internship in Forensic Science  1-3
ANTHRO 405  Forensic Anthropology  3
BIO SCI 539 (663)  Laboratory Techniques in Molecular Biology  4
CHEM 194  First-Year Seminar: (with forensic subtitle)  3
CHEM 602  Biochemistry: Cellular Processes  3
BMS 555  Toxicology and Therapeutic Drug Monitoring  1
BMS 560  Molecular and Genetic Diagnostics  2
BMS 561  Molecular Diagnostics Laboratory  1
BMS 620  Forensic Pathology  2


Bachelor of Arts in Global Studies

Coordinator: Patrice Petro, Vice Provost for International Education and Professor of English

Christine Wolf, Advisor, Garland 111, (414) 229-6925, cawolf@uwm.edu (Last names A-L)

Aparna Datey, Advisor, Garland 113, (414) 229-3042, datey@uwm.edu (Last names M-Z)

The College of Letters & Science and several of UWM's professional schools have formed a partnership to offer students a unique program of study that will prepare them for positions of global leadership in our increasingly interconnected world.

The Bachelor of Arts in Global Studies combines the considerable strengths of a liberal arts and sciences education with the specialized knowledge of professional studies enhanced by a thorough, integrated international emphasis. While graduates of the Global Studies program will have a competitive advantage, especially in areas of employment that benefit from an international education, the analytical, communication, and cultural awareness knowledge and skills acquired through the Global Studies degree will serve students well in any area of work.

Courses of Study

Global Studies at UWM is a four-year undergraduate program consisting of the following pre-professional tracks: Global Cities, Global Communications, Global Management, Global Security, and Global Sustainability. Common to all tracks is the degree's core curriculum, which includes three foundational Global Studies core courses; one semester (12 cr minimum) of study abroad; an international internship; eight semesters (or equivalent) of foreign language study; and a course in world regions. In addition, students take specialized courses designated for their elected Global Studies track.

The Global Communications track focuses on the relevance of language, culture, and identity in understanding innovations in and applications of technology, media, communications, information science, and technology transfer. This track will allow students to build technical competencies while also grounding them in a broader understanding of technology's impact on human lives. This track affords a range of options that allows students to prepare for careers in fields such as marketing, international business, advertising, information technology, new media, and translation.

The Global Management track, focusing on the impact of globalization on business and the world economy, will prepare students as future managers capable of analyzing transnational issues; strategizing within a global, cross-cultural context; and implementing projects with a strong understanding of globalization's implications for the private and public sectors. This track will prepare students to assume leadership roles in many areas, but it will be advantageous especially in such fields as international business, consulting, education, government, and public policy. In addition, graduates of this track will meet all the requirements for admission to an MBA program.

The Global Security track examines the changing conceptions and conditions shaping security in a global context. In addition to exploring traditional notions of security based on the nation-state and the international system, coursework in this track considers a wide range of issues including global health, the environment, human rights, peace-building efforts, 21st-century conflict, social movements, migration, ethnicity, and identity. This track will prepare students to pursue careers in government agencies and nongovernmental organizations addressing areas such as international development, global conflict management, and global sustainability.

The Global Sustainability track develops student expertise in the diverse concepts of global sustainability and their application to development fields. Students following this track will be able to: recognize and explain principles of sustainability in human, environmental, and governance systems; and evaluate and identify methods for planning and implementing sustainable development strategies in differing contexts. This track affords graduates a range of career options including positions such as sustainability specialists/coordinators/officers, educators/outreach coordinators, and project managers, working in industry, consultancy, utilities, regulatory agencies, nonprofits, governmental agencies, and nongovernmental organizations. Students are also prepared to enter graduate programs in sustainability.

The Global Urban Development track will help students acquire a holistic understanding of the global dimensions and local variations of urban development, the histories and economy of global cities, the causes and implications of urban growth, and nuances of international development as applied to changing global scenarios. It will prepare students for further professional studies and careers in architecture, urban planning, public policy, community development, or Geographic Information Systems (GIS).

Enrolling in the Global Studies B.A. Degree Program

Students applying to the University of Wisconsin-Milwaukee and declaring a primary interest in global studies on their application forms will be assigned a Global Studies advisor at the Center for International Education. Students may enroll in the Global Studies degree program by declaring their major as global studies, which is possible after they have earned 56 credits. The process includes (1) reviewing the degree requirements with a Global Studies advisor and (2) signing the declaration of major form. Students who intend to pursue a Global Studies degree are strongly advised to declare before earning 75 credits.

Curriculum Requirements. To earn the Bachelor of Arts in Global Studies, students in all tracks must complete 120 credits, including a minimum of 36 credits in upper-division courses (numbered 300 or above), while fulfilling the requirements below. GPAs of at least 2.00 overall and 2.50 in the selected track are required for graduation. Students also are responsible for completing the University-wide General Education Requirements.

GENERAL STUDIES - CORE REQUIREMENTS FOR ALL TRACKS
Global Studies Core Courses (9 cr) - Introduction to the nature and impact of global processes.

GLOBAL 101 Introduction to Global Studies I: People and Politics 3 (SS)
GLOBAL 201 Introduction to Global Studies II: Economics and the Environment 3 (SS)
GLOBAL 202 Introduction to Global Studies III: Globalization and Technology 3 (SS)

Global Studies Capstone (3 cr) - Culminating experience in the senior year. Students must complete a capstone course appropriate to their track.

World Regions Course (3 cr) - Introduction to area studies.

One of the following:

GEOG 110 The World: Peoples and Regions 3 (SS)
HIST 132 World History Since 1500 3 (HU)
POL SCI 106 Politics of the World's Nations 3 (SS)

Foreign Language - The requirement may be satisfied in one of the following ways:

Option 1 One Language: Eight semesters (or equivalent) of a single foreign language with passing grades.

Option 2 Two Languages: First- through sixth-semester (or equivalent) of a first language other than English and two semesters (or equivalent) in a second language other than English, all with passing grades.

ENRICHMENT STUDIES - REQUIRED FOR ALL TRACKS

Study Abroad
Students must complete a minimum of 12 credits while studying abroad.

International Internship
Students must complete a 3-credit internship at a location outside of the U.S. The internship normally will be completed during the semester abroad, in the summer following the semester abroad, or in the senior year.

General Education Distribution Requirements
In order to build a foundation in the arts, humanities, social sciences, and natural sciences, students are required to take courses that satisfy the distribution areas of the UWM General Education Requirements (GER), as outlined below:

- Arts 3 cr
- Cultural Diversity 3 cr
- Natural Sciences, including one lab 6-7 cr
- Humanities (3 of which may be satisfied by selecting HIST 132 under the world regions course options) 12 cr
- Social Sciences 6 of which are satisfied by Global core courses and 3 additional cr which may be satisfied by selecting GEOG 110 or POL SCI 106 under the world regions course options) 12 cr

A list of courses in each distribution area is provided in the UWM Schedule of Classes under "Courses Approved for GER Distribution."

SPECIALIZED STUDIES

Additional requirements designated for each track appear in the sections below. Under specialized studies, students are required to complete only the requirements for their elected track.

Global Communications Track

To earn the Bachelor of Arts in Global Studies through the Global Communications track, students must complete the following requirements. At least one writing course (*) must be selected.

GLOBAL COMMUNICATIONS TRACK CORE COURSES (18 cr)
Choose two of the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 105</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing*</td>
<td>3</td>
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<tr>
<td>ENGLISH 206</td>
<td>Technical Writing*</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions:* (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Writing:* (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Professional and Technical Writing*</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 436</td>
<td>Writing for Information Technology*</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 449</td>
<td>Writing Internship in English*</td>
<td>1-4</td>
</tr>
<tr>
<td>JAMS 201</td>
<td>Media Writing*</td>
<td>3</td>
</tr>
<tr>
<td>L&amp;I SCI 110</td>
<td>Introduction to Information Science</td>
<td>3</td>
</tr>
<tr>
<td>L&amp;I SCI 250</td>
<td>Internet Communications and Information Transfer</td>
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All four of the following courses (12 cr):

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
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<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 351</td>
<td>Language, Media, and Social Practice in Global Communications</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 451</td>
<td>Access, Security, and Intercultural Contexts in Global Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

GLOBAL COMMUNICATIONS ELECTIVES (24 cr.)

Students must complete 24 credits from the following lists of courses, with a minimum of 15 credits taken from List A. There is no minimum number of credits that must be selected from Lists B-E. Electives from Lists C-E should be courses about the country or region in which the student will pursue language study and/or study abroad. Any individual course may count only once toward degree requirements. Students in this track who are awarded their degree by L&S only must complete at least 36 credits in L&S upper-division (numbered 300 or above) courses.

A. A minimum of 15 credits must be completed from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ANTHRO 349</td>
<td>Seminar in Ethnography and Cultural Processes</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 570</td>
<td>Issues in Bilingualism (jointly offered with Linguistics)</td>
<td>3</td>
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<tr>
<td>ART 227</td>
<td>Design Workshop (with appropriate subtitle)</td>
<td>1-3</td>
</tr>
<tr>
<td>ART 393 (293)</td>
<td>Digital Printmaking I</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Systems</td>
<td>3 (if not selected above)</td>
</tr>
<tr>
<td>BUS ADM 335</td>
<td>Visual System Development</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 433</td>
<td>Information Technology Project Management</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 435</td>
<td>Emerging Information Technologies</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 467</td>
<td>Marketing Seminar: (with appropriate subtitles)</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 495</td>
<td>Special Topics in Business: (with appropriate subtitle)</td>
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</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 530</td>
<td>Introduction to eBusiness</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 531</td>
<td>Developing Web Applications Using Web Services</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 532</td>
<td>Web Development for Open Business Systems</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 533</td>
<td>Information Technology Infrastructure for Business</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 441 (310)</td>
<td>Business Chinese</td>
<td>3</td>
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<tr>
<td>COMMUN 192</td>
<td>Freshman Seminar: &quot;The Digital Mirror&quot; subtitle</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 313</td>
<td>Human Communication and Technology</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
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<tr>
<td>COMMUN 380</td>
<td>Honors Seminar: “The Social History of the Internet” subtitle</td>
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<tr>
<td>COMMUN 402</td>
<td>Gender and Communication</td>
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<td>COMMUN 410</td>
<td>Organizational Communication Technology</td>
<td>3</td>
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<tr>
<td>COMMUN 413</td>
<td>Rhetoric and the Internet</td>
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<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
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<tr>
<td>COMMUN 550</td>
<td>International and Global Communication</td>
<td>3</td>
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<tr>
<td>COMMUN 655</td>
<td>Cultural Training and Adjustment</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
<td>3</td>
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<tr>
<td>ENGLISH 214</td>
<td>Writing in the Professions: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Writing (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 436</td>
<td>Writing for Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 437</td>
<td>Project Management for Professional Writers</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Document Design</td>
<td>3</td>
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<tr>
<td>ENGLISH 449</td>
<td>Writing Internship in English</td>
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<tr>
<td>FILM 202 (102)</td>
<td>Current Topics in Media Arts Production</td>
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<td>FILM 203</td>
<td>Media Workshop: &quot;Maya 3-D Animation&quot; subtitle</td>
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<td>FILM 222</td>
<td>Basic Elements of Video</td>
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<td>FILM 255</td>
<td>Digital Arts Workshop</td>
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<tr>
<td>FINEART 327 (351)</td>
<td>Digital Media Workshop (with appropriate subtitle)</td>
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<tr>
<td>FINEART 376 (211)</td>
<td>Interactive Installation and Performance (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>FRENCH 311</td>
<td>French for International Business/Professional Communication: Oral Emphasis</td>
<td>3</td>
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<tr>
<td>FRENCH 361</td>
<td>French for International Business/Professional Communication: Writing Focus</td>
<td>3</td>
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<tr>
<td>FRENCH 415 (425)</td>
<td>Introduction to Translation: French to English</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 465</td>
<td>Introduction to Translation: English to French</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 515 (526)</td>
<td>Seminar in Advanced Translation; French to English</td>
<td>3</td>
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<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Sciences</td>
<td>3</td>
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<tr>
<td>GEOG 225</td>
<td>The Language of Maps</td>
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<tr>
<td>GERMAN 360</td>
<td>German for the Global World</td>
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<td>GERMAN 361</td>
<td>German for International Business Communication</td>
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<tr>
<td>GERMAN 425</td>
<td>Introduction to Translation</td>
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<td>GERMAN 525</td>
<td>Seminar in Advanced German Translation</td>
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<td>GERMAN 672</td>
<td>German for Professional Purposes</td>
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<td>GLOBAL 311</td>
<td>Contexts for Global Management</td>
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<td>GLOBAL 448</td>
<td>Intellectual Property in the Global Information Economy</td>
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<tr>
<td>GLOBAL 541 (411)</td>
<td>Cross-Cultural Management</td>
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<tr>
<td>ITALIAN 313</td>
<td>Translation: Italian-English, English-Italian</td>
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<td>JAMS 101</td>
<td>Introduction to Mass Media</td>
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<tr>
<td>JAMS 201</td>
<td>Media Writing</td>
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<tr>
<td>JAMS 204</td>
<td>News Writing and Technology</td>
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<tr>
<td>JAMS 207</td>
<td>Introduction to Advertising and Public Relations</td>
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<tr>
<td>JAMS 225</td>
<td>Nature and Culture in the Information Age</td>
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<td>JAMS 226</td>
<td>Religion, Media, and Culture</td>
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<tr>
<td>JAMS 231 (431)</td>
<td>Publication Design</td>
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<td>JAMS 232</td>
<td>Photojournalism</td>
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<tr>
<td>JAMS 262</td>
<td>Principles of Media Studies</td>
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<tr>
<td>JAMS 307</td>
<td>Advertising and Public Relations</td>
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<td>JAMS 320</td>
<td>Print and Online News</td>
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<td>JAMS 336</td>
<td>Media Graphics</td>
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<td>JAMS 361</td>
<td>Media Ethics</td>
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<td>JAMS 524</td>
<td>Strategic Communication Campaigns</td>
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<td>JAMS 562</td>
<td>Media Studies and Culture</td>
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<tr>
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<tr>
<td>L&amp;I SCI 110</td>
<td>Introduction to Information Science</td>
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<td>L&amp;I SCI 120</td>
<td>Information Technology Ethics</td>
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<td>L&amp;I SCI 240</td>
<td>Information Architecture I</td>
<td>3</td>
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<tr>
<td>L&amp;I SCI 310</td>
<td>Human Factors in Information Seeking and Use</td>
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<td>L&amp;I SCI 330</td>
<td>Electronic Information Retrieval Systems</td>
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<td>L&amp;I SCI 340</td>
<td>Information Architecture II</td>
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<td>L&amp;I SCI 410</td>
<td>Database Information Retrieval Systems</td>
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<td>L&amp;I SCI 430</td>
<td>Multimedia Application Development</td>
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<td>L&amp;I SCI 440</td>
<td>Information Architecture III</td>
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<td>LINGUIS 200</td>
<td>Aspects of Language: (Subtitle)</td>
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<td>LINGUIS 410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education</td>
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<tr>
<td>LINGUIS 420</td>
<td>Introduction to Second Language Acquisition</td>
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<td>LINGUIS 430</td>
<td>Language and Society</td>
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<tr>
<td>LINGUIS 565</td>
<td>Introduction to Adult/University-Level TESOL</td>
<td>3</td>
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<tr>
<td>LINGUIS 570</td>
<td>Issues in Bilingualism (jointly offered with ANTHRO)</td>
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<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
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<tr>
<td>SOCIOL 327</td>
<td>The Social Organization of Technology: A Comparative Perspective</td>
<td>3</td>
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<tr>
<td>SPANISH 347</td>
<td>Introduction to Translation: Spanish to English</td>
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<td>SPANISH 348</td>
<td>Introduction to Translation: English to Spanish</td>
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<tr>
<td>SPANISH 349</td>
<td>Introduction to Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 447</td>
<td>Seminar in Advanced Translation: Spanish to English</td>
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<tr>
<td>SPANISH 448</td>
<td>Seminar in Advanced Translation: English to Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 449</td>
<td>Advanced Court Interpreting</td>
<td>3</td>
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<td>TRNSLTN 415</td>
<td>Introduction to Translation: French to English</td>
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<td>TRNSLTN 465</td>
<td>Introduction to Translation: English to French</td>
<td>3</td>
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<tr>
<td>TRNSLTN 530</td>
<td>Business and Professional Aspects of Translation</td>
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### B. Topical Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, and Practice</td>
<td>3</td>
</tr>
<tr>
<td>ART 317</td>
<td>3D Imaging I</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 111</td>
<td>Entertainment Arts: Film, Television, and the Internet</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
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<tr>
<td>BUS ADM 436</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>COMPLIT 365</td>
<td>Literatures and Cultures of the Americas: (with appropriate subtitle)</td>
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<tr>
<td>COMPSCI 112</td>
<td>Introduction to the Internet and the World Wide Web</td>
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<td>COMPSCI 113</td>
<td>Introduction to Web Document Production</td>
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<td>COMPSCI 201</td>
<td>Introductory Computer Programming</td>
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<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
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<tr>
<td>ENGLISH 111</td>
<td>Entertainment Arts: Film, Television, and the Internet</td>
<td>3</td>
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<tr>
<td>ENGLISH 192</td>
<td>Freshman Seminar: (with appropriate subtitle)</td>
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<td>ENGLISH 210</td>
<td>International English</td>
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<td>ENGLISH 253</td>
<td>Science Fiction: (with appropriate subtitle)</td>
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<td>ENGLISH 290</td>
<td>Introduction to Film Studies</td>
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<td>ENGLISH 291</td>
<td>Introduction to Television Studies</td>
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<td>ENGLISH 316</td>
<td>World Cinema: (with appropriate subtitle)</td>
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<td>ENGLISH 320</td>
<td>Studies in Film Authorship: (with appropriate subtitle)</td>
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<td>ENGLISH 394</td>
<td>Theories of Mass Culture: (with appropriate subtitle)</td>
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<tr>
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<td>ENGLISH 402</td>
<td>Theories of Language and Literature: &quot;Language and Public Policy&quot; subtitle</td>
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<td>ENGLISH 404</td>
<td>Language, Power, and Identity</td>
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<td>ENGLISH 434</td>
<td>Editing and Publishing</td>
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<tr>
<td>ENGLISH 465</td>
<td>Women Writers: “Women Writers in a Global Context” subtitle</td>
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<td>ENGLISH 627</td>
<td>Seminar in Literature and Culture: (with appropriate subtitle)</td>
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<td>ENGLISH 630</td>
<td>Seminar in Literature and the Other Arts: (with appropriate subtitle)</td>
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<td>FILM 116</td>
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<td>FILM 302</td>
<td>Video in the Classroom</td>
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<td>Spatial Interactivity II</td>
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<td>HIST 372</td>
<td>Topics in Global History (with appropriate subtitle)</td>
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<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
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<td>Gender and the Media</td>
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<td>JAMS 112</td>
<td>Global Media</td>
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<td>JAMS 113</td>
<td>Internet Culture</td>
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<tr>
<td>JAMS 114</td>
<td>Media and Popular Culture</td>
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<tr>
<td>JAMS 115</td>
<td>Introduction to Media and Politics</td>
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<tr>
<td>JAMS 116</td>
<td>Journalism, Documentary, and Democracy</td>
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<tr>
<td>JAMS 260</td>
<td>Contemporary Non-Fiction Media</td>
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<tr>
<td>JAMS 360 (560)</td>
<td>History of Mass Media</td>
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<td>Race and Ethnicity in the Media</td>
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<td>JAMS 614</td>
<td>Seminar in Mass Media and Public Opinion</td>
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<td>JAMS 615</td>
<td>Seminar in Media and Politics</td>
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<td>JAMS 620</td>
<td>Seminar in Global Media</td>
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<td>JAMS 659</td>
<td>Seminar in Comparative Media Law</td>
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<td>L&amp;I SCI 210</td>
<td>Information Resources for Research</td>
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<td>Internet Communications and Information Transfer</td>
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<tr>
<td>L&amp;I SCI 691</td>
<td>Special Topics in Information Science: (with appropriate subtitle)</td>
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<td>LINGUIS 100</td>
<td>The Diversity of Human Language</td>
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<tr>
<td>LINGUIS 200</td>
<td>Aspects of Language: (with appropriate subtitle)</td>
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<tr>
<td>LINGUIS 210</td>
<td>Power of Words</td>
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<tr>
<td>LINGUIS 350</td>
<td>Introduction to Linguistics</td>
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<tr>
<td>LINGUIS 468</td>
<td>Language in its Various Forms: “Survey of African Languages” subtitle</td>
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<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
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<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
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**C. Area Studies Electives**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AFRICOL 232</td>
<td>Survey of African Societies and Cultures</td>
</tr>
<tr>
<td>AFRICOL 311</td>
<td>African Religious Thought and Social Organizations</td>
</tr>
<tr>
<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
</tr>
<tr>
<td>ANTHRO 315</td>
<td>Peoples and Cultures of Mexico and Central America</td>
</tr>
<tr>
<td>ANTHRO 316</td>
<td>Peoples and Cultures of South America</td>
</tr>
<tr>
<td>ANTHRO 317</td>
<td>Peoples and Cultures of Brazil</td>
</tr>
<tr>
<td>ANTHRO 318</td>
<td>Peoples and Cultures of the Caribbean</td>
</tr>
<tr>
<td>ANTHRO 319</td>
<td>Peoples and Cultures of the Pacific</td>
</tr>
<tr>
<td>ANTHRO 320</td>
<td>Peoples and Cultures of Africa</td>
</tr>
<tr>
<td>ANTHRO 322</td>
<td>Europe in Anthropological Perspective</td>
</tr>
<tr>
<td>ANTHRO 323</td>
<td>Peoples and Cultures of Southeast Asia</td>
</tr>
<tr>
<td>ANTHRO 325</td>
<td>Japanese Culture and Society</td>
</tr>
<tr>
<td>ANTHRO 326</td>
<td>Peoples and Cultures of South Asia</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<td>------------</td>
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<tr>
<td>ANTHRO 327</td>
<td>Peoples and Cultures of the Middle East</td>
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<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
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<tr>
<td>HIST 283</td>
<td>Arab-Israeli Relations: The Search for Peace</td>
</tr>
<tr>
<td>HIST 345</td>
<td>The Modern Balkans: Nationalism, War, and Democracy</td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
</tr>
<tr>
<td>HIST 382</td>
<td>Southeast Asia: The Age of Imperialism and Revolution Since 1800</td>
</tr>
<tr>
<td>HIST 392</td>
<td>The History of Southern Africa</td>
</tr>
<tr>
<td>HIST 393</td>
<td>History of Mexico</td>
</tr>
<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
</tr>
</tbody>
</table>

D. Foreign Language Electives - Up to 6 credits beyond those taken to meet the foreign language requirement of upper-division courses (300-level or fifth-semester and above) on contemporary culture or literature in a foreign language may count as electives for this track, provided that the language of instruction is not English. The following are recommended; however, see language program listings in this catalog for a complete list.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies through Film</td>
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<tr>
<td>FRENCH 324</td>
<td>Contemporary French Language and Culture</td>
<td>3</td>
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<tr>
<td>FRENCH 421</td>
<td>Undergraduate Seminar in French Studies: (Subtitle)</td>
<td>3</td>
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<tr>
<td>FRENCH 426</td>
<td>Growing Up French</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 427</td>
<td>Advanced Written Expression</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 432</td>
<td>Seminar in French and Francophone Cultures: (Subtitle)</td>
<td>1-3</td>
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<tr>
<td>FRENCH 450</td>
<td>Institutions and Culture of Contemporary France</td>
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<tr>
<td>FRENCH 592</td>
<td>Seminar in French Language: (Subtitle)</td>
<td>3</td>
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<tr>
<td>GERMAN 334</td>
<td>Introduction to German Literature and Culture</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 410</td>
<td>German Cultural History</td>
<td>3</td>
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<tr>
<td>GERMAN 411</td>
<td>Modern-Day Germany</td>
<td>3</td>
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<tr>
<td>GERMAN 415</td>
<td>Topics in German Civilization: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ITALIAN 312</td>
<td>Contemporary Italian Language and Culture</td>
<td>3</td>
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<td>ITALIAN 629</td>
<td>Major Film Directors: (Subtitle)</td>
<td>3</td>
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<tr>
<td>PORTUGS 360</td>
<td>Brazilian Culture: (Subtitle)</td>
<td>3</td>
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<tr>
<td>SPANISH 315</td>
<td>Spanish Immersion Experience</td>
<td>3</td>
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<tr>
<td>SPANISH 461</td>
<td>Topics in Hispanic Culture: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>SPANISH 470</td>
<td>Survey of Hispanic Literature and Civilization</td>
<td>3</td>
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<tr>
<td>SPANISH 472</td>
<td>Survey of Spanish-American Literature and Civilization</td>
<td>3</td>
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<tr>
<td>SPANISH 474</td>
<td>Survey of Spanish Literature and Civilization</td>
<td>3</td>
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E. Literature-in-Translation - Credits in 100-level courses may be elected only prior to the student's study abroad.

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: (with appropriate subtitle)</td>
<td>2-4</td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film: &quot;Literature and Film of Globalization&quot; subtitle</td>
<td>2-4</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 145</td>
<td>Views of France: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 451 (351)</td>
<td>Cinema of the French Speaking World: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>GERMAN 112</td>
<td>German Life and Civilization: Part II</td>
<td>3</td>
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<tr>
<td>GERMAN 114</td>
<td>Scandinavian Life and Culture</td>
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<tr>
<td>GERMAN 115</td>
<td>Seminar on Scandinavian Culture</td>
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<tr>
<td>HEBR ST 254</td>
<td>Studies in Hebrew Culture: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ITALIAN 145</td>
<td>Views of Italy: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ITALIAN 229</td>
<td>Italian Cinema</td>
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<tr>
<td>ITALIAN 245</td>
<td>Italian Fictions: (Subtitle)</td>
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<td>ITALIAN 258</td>
<td>Contemporary Italian Society and Culture</td>
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<tr>
<td>ITALIAN 265</td>
<td>Italian Women's Studies: (Subtitle)</td>
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<tr>
<td>ITALIAN 357</td>
<td>Topics in Italian Culture in Translation: (Subtitle)</td>
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<td>Course Code</td>
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<tr>
<td>ITALIAN 457</td>
<td>Topics in Italian Literature and Culture in Translation: (Subtitle)</td>
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<tr>
<td>ITALIAN 537</td>
<td>Topics in Italian Culture in Translation: (Subtitle)</td>
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<tr>
<td>JAPAN 200</td>
<td>Japanese Culture and Its Effect on Language</td>
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<tr>
<td>POLISH 236</td>
<td>Polish Culture in Its Historical Setting</td>
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<tr>
<td>PORTUGS 225</td>
<td>Understanding Brazil: (Subtitle)</td>
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<tr>
<td>PORTUGS 380</td>
<td>Luso-Brazilian Literature in Translation: (with appropriate subtitle)</td>
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<tr>
<td>RUSSIAN 225</td>
<td>Contemporary Slavic Civilization</td>
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<tr>
<td>RUSSIAN 245</td>
<td>Russian Life and Culture</td>
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<tr>
<td>SPANISH 225</td>
<td>Understanding the Hispanic World</td>
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**Global Management Track**

To earn the Bachelor of Arts in Global Studies through the Global Management track, students must fulfill the following requirements (43 credits):

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics</td>
</tr>
<tr>
<td>BUS ADM 230</td>
<td>Introduction to Information Systems</td>
</tr>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
</tr>
<tr>
<td>BUS ADM 350</td>
<td>Principles of Finance</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
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<tr>
<td>BUS ADM 465</td>
<td>International Marketing</td>
</tr>
<tr>
<td>BUS ADM 496</td>
<td>International Business (capstone)</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
</tr>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
</tr>
<tr>
<td>GLOBAL 541</td>
<td>Cross-Cultural Management</td>
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<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
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*One of the following two courses (3 credits):*

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<tr>
<td>BUS ADM 535</td>
<td>Global Information Systems Management</td>
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<tr>
<td>GLOBAL 311</td>
<td>Contexts for Global Management</td>
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*One of the following three courses (3 credits):*

<table>
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<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
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<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
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<tr>
<td>COMMUN 550</td>
<td>International and Global Communication</td>
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**ELECTIVES (6 credits)**

*Complete a minimum of two courses from the approved list:*

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<td>BUS ADM 535</td>
<td>Global Information Systems Management (if not selected above)</td>
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<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication (if not selected above)</td>
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<tr>
<td>COMMUN 450</td>
<td>Advanced Intercultural Communication (if not selected above)</td>
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<tr>
<td>COMMUN 520</td>
<td>Negotiation Skills Workshop</td>
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<tr>
<td>COMMUN 550</td>
<td>International and Global Communication (if not selected above)</td>
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<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
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<tr>
<td>ECON 325</td>
<td>Money and Banking</td>
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<tr>
<td>ECON 353</td>
<td>Economic Development</td>
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</table>
Global Security Track

To earn the Bachelor of Arts in Global Studies through the Global Security track, students must complete the requirements listed below. Students in this track must complete at least 36 credits in L&S upper-division (numbered 300 or above) courses.

GLOBAL SECURITY TRACK CORE COURSES (21-22 cr)

All three of the following courses (9 cr):

- ECON 103 Principles of Microeconomics 3
- ECON 104 Principles of Macroeconomics 3
- GLOBAL 371 Rethinking Global Security 3

One of the following three courses (3 cr):

- ANTHRO/GLOBAL 442 Humanitarianism in Global Perspective 3
- GLOBAL 447 Global Politics of Human Rights 3
- GLOBAL 471 Strategies for Realizing Security in Global Contexts 3

One of the following two courses (3 cr):

- ECON 210 Economic Statistics 3
- MTHSTAT 215 Elementary Statistical Analysis 3

One of the following six courses (3-4 cr):

- ANTHRO 540 Applications of Anthropology 3
- ANTHRO 560 Introduction to Research Methods in Anthropology 3
- GEOG 215 Introduction to Geographic Information Sciences 3
- GEOG 525 Geographic Information Systems 3
- POL SCI 390 Political Data Analysis 4
- WMNS 411 (400) Women's Studies Research and Methods: (Subtitle) 3

One of the following three courses (3 cr):

- COMMUN 520 Negotiation Skills Workshop 3
- COMMUN 665 Introduction to Mediation 3
- COMMUN 675 Communication in International Mediation and Peacebuilding 3
GLOBAL SECURITY ELECTIVES (21 cr)

Students must complete 21 credits from the following lists, with at least 15 credits selected from List A. There is no minimum number of credits that must be taken from List B.

A. Foundational Courses

<table>
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<td>Food and Culture</td>
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<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
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<td>ANTHRO 440</td>
<td>Medical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 447</td>
<td>The Global Politics of Human Rights</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 448</td>
<td>Cultural and Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 449</td>
<td>Economic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 450</td>
<td>Political Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
<td>3</td>
</tr>
<tr>
<td>C L SCI 232</td>
<td>Introduction to Nutrition</td>
<td>3</td>
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<tr>
<td>C L SCI 539</td>
<td>Public Health Microbiology</td>
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<tr>
<td>C L SCI 540</td>
<td>Public Health Microbiology Lab</td>
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<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 363</td>
<td>Communication in Human Conflict</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 365 (520)</td>
<td>Negotiation Skills Workshop (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 550</td>
<td>International and Global Communication</td>
<td>3</td>
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<tr>
<td>COMMUN 631</td>
<td>Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation (if not selected above)</td>
<td>3</td>
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<tr>
<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics: &quot;Women and War in Latin America and the Caribbean&quot; subtitle</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 350</td>
<td>Topics in Comparative Literature: &quot;Border Crossing and Migration in Literature and Film&quot; subtitle</td>
<td>3</td>
</tr>
<tr>
<td>CRM JST 291</td>
<td>Current Issues in Criminal Justice: &quot;International Terrorism&quot; subtitle</td>
<td>3</td>
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<tr>
<td>CRM JST 410</td>
<td>Comparative Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 443</td>
<td>Grant Writing</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 350</td>
<td>Advanced Topics in Comparative Ethnic Studies: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 375</td>
<td>Global Violence, Disease, and Death</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
<td>3</td>
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<tr>
<td>GEOG 310</td>
<td>General Climatology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 350</td>
<td>Conservation of Natural Resources</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Urban Environmental Change and Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 299</td>
<td>Ad Hoc: (with appropriate subtitle)</td>
<td>1-6</td>
</tr>
<tr>
<td>GLOBAL 321</td>
<td>The Global City in History</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 421</td>
<td>Social Justice in the Global City</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 442</td>
<td>Humanitarianism in Global Perspective (if not selected above):</td>
<td>3 (jointly offered with ANTHRO 442)</td>
</tr>
<tr>
<td>GLOBAL 443</td>
<td>Medicine and Pharmaceuticals in the Global Age</td>
<td>3 (jointly offered with ANTHRO 442)</td>
</tr>
<tr>
<td>GLOBAL 447</td>
<td>The Global Politics of Human Rights (if not selected above)</td>
<td>3 (jointly offered with ANTHRO 447)</td>
</tr>
<tr>
<td>GLOBAL 499</td>
<td>Ad Hoc: (with appropriate subtitle)</td>
<td>1-6</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>NURS 362</td>
<td>Spectrum of Human Immunodeficiency Virus Infections</td>
<td>3</td>
</tr>
<tr>
<td>NURS 365</td>
<td>Current Topics of Nursing: &quot;Cross-Cultural Nursing,&quot; &quot;Ethical Issues in Nursing&quot;</td>
<td>3</td>
</tr>
</tbody>
</table>
and Health Care subites

PEACEST 201 Introduction to Conflict Resolution and Peace 3
PH 101 Introduction to Public Health 3
PH 375 Topics in Public Health for Undergraduates: (with appropriate subtitle) 3
PHILS 350 Introduction to Comparative Study of Religion 3
POL SCI 175 Introduction to International Relations 3
POL SCI 316 International Law 3
POL SCI 330 Politics of International Economic Relations 3
POL SCI 337 International Organization and the United Nations 3
POL SCI 338 Seminar in International Relations: (with appropriate subtitle) 3
POL SCI 365 Theories and Methods in International Politics 3
POL SCI 370 International Conflict 3
POL SCI 371 Nationalism and Ethnic Conflict 3
SOCIO 235 Social Change in the Global Economy 3
SOCIO 331 Sociology of Health Care 3
SOCIO 450 Environmental Sociology 3
SOCIO 495 Seminar in Sociology: (with appropriate subtitle) 3
WMNS 401 Global Feminisms 3
WMNS 500 Advanced Social Science Seminar in Women's Studies: (with appropriate subtitle) 3

B. Supplemental Electives

AFRICOL 232 Survey of African Societies and Cultures 3
AFRICOL 311 African Religious Thought and Social Organizations 3
AFRICOL 320 Black Cultures in Latin America and the Caribbean 3
AFRICOL 329 Economic Growth and Sustainable Development in Africa 3
AFRICOL 450 Cultural Transmissions: Black African and Black America 3
AFRICOL 565 Selected Texts/Topics in Africology: "The Quest for Pan-Africanism" subtitle 3
ANTHRO 250 Women's Roles in Cross-Cultural Perspective 3
ANTHRO 315 Peoples and Cultures of Mexico and Central America 3
ANTHRO 316 Peoples and Cultures of South America 3
ANTHRO 317 Peoples and Cultures of Brazil 3
ANTHRO 318 Peoples and Cultures of the Caribbean 3
ANTHRO 319 Peoples and Cultures of the Pacific 3
ANTHRO 320 Peoples and Cultures of Africa 3
ANTHRO 322 Europe in Anthropological Perspective 3
ANTHRO 323 Peoples and Cultures of Southeast Asia 3
ANTHRO 325 Japanese Culture and Society 3
ANTHRO 326 Peoples and Cultures of South Asia 3
ANTHRO 327 Peoples and Cultures of the Middle East 3
ANTHRO 441 Nature, Knowledge, and Technoscience in Anthropological Perspective 3
BUS ADM 330 Organizations 3
CHINESE 320 Contemporary Chines Society Through Film 3
CIV ENG 492 Environmental Impact Assessment 3
COMMUN 450 Cross-Cultural Communication 3
COMMUN 550 International and Global Communications 3
COMPLIT 233 Literature and Film: (with appropriate subtitle) 3
ECON 447 Labor Economics 3
ECON 454 International Trade 3
ECON 455 International Finance 3
ENGLISH 240 Rhetoric, Writing, and Culture: "The Discourse of Human Rights" subtitle 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 247</td>
<td>Literature and Human Experience: (with appropriate subtitle)</td>
</tr>
<tr>
<td>ENGLISH 268</td>
<td>Introduction to Cultural Studies: (with appropriate subtitle)</td>
</tr>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: (with appropriate subtitle)</td>
</tr>
<tr>
<td>ETHNIC 102</td>
<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity</td>
</tr>
<tr>
<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies (with appropriate subtitle)</td>
</tr>
<tr>
<td>ETHNIC 550</td>
<td>Senior Seminar in Comparative Ethnic Studies (with appropriate subtitle)</td>
</tr>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Sciences</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
</tr>
<tr>
<td>GEOG 309</td>
<td>Nationalities and Nations of the World</td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
</tr>
<tr>
<td>GEOG 332</td>
<td>China: Peoples, Regions, and Development</td>
</tr>
<tr>
<td>GEOG 340</td>
<td>Biogeography</td>
</tr>
<tr>
<td>GEOG 403</td>
<td>Remote Sensing: Environmental and Land Use Analysis</td>
</tr>
<tr>
<td>GEOG 410</td>
<td>Gendered Geographies</td>
</tr>
<tr>
<td>GEOG 421</td>
<td>Geography of Latin America</td>
</tr>
<tr>
<td>GEOG 462</td>
<td>Cultural Geography of Latin America</td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
</tr>
<tr>
<td>HEBR ST 238</td>
<td>Studies in Hebrew/Jewish Literature, Art, and Culture: (with appropriate subtitle)</td>
</tr>
<tr>
<td>HEBR ST 254</td>
<td>Studies in Hebrew Culture (with appropriate subtitle)</td>
</tr>
<tr>
<td>HIST 192</td>
<td>Freshman Seminar (with appropriate subtitle)</td>
</tr>
<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues (with appropriate subtitle)</td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
</tr>
<tr>
<td>HIST 286</td>
<td>The Korean Conflict, 1950-1953</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
</tr>
<tr>
<td>HIST 290</td>
<td>Topics in Global History (with appropriate subtitle)</td>
</tr>
<tr>
<td>HIST 345</td>
<td>The Modern Balkans: Nationalism, War, and Democracy</td>
</tr>
<tr>
<td>HIST 372</td>
<td>Topics in Global History: (Subtitle)</td>
</tr>
<tr>
<td>HIST 375</td>
<td>Contemporary European History, 1945 to the Present</td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
</tr>
<tr>
<td>HIST 382</td>
<td>Southeast Asia: The Age of Imperialism and Revolution Since 1800</td>
</tr>
<tr>
<td>HIST 392</td>
<td>The History of Southern Africa</td>
</tr>
<tr>
<td>HIST 393</td>
<td>History of Mexico</td>
</tr>
<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
</tr>
<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the 20th Century</td>
</tr>
<tr>
<td>INTLST 550</td>
<td>Seminar in International Studies: (with appropriate subtitle)</td>
</tr>
<tr>
<td>L&amp;I SCI 660 (625)</td>
<td>Information Policy</td>
</tr>
<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
</tr>
<tr>
<td>POL SCI 255 (155)</td>
<td>Great Issues of Politics</td>
</tr>
<tr>
<td>POL SCI 300 (200)</td>
<td>Western European Politics</td>
</tr>
<tr>
<td>POL SCI 302</td>
<td>Politics of Eastern Europe</td>
</tr>
<tr>
<td>POL SCI 310</td>
<td>Politics of the Soviet Union and Its Successor States</td>
</tr>
<tr>
<td>POL SCI 325</td>
<td>Latin American Politics</td>
</tr>
<tr>
<td>POL SCI 327</td>
<td>Politics of the Middle East and North Africa</td>
</tr>
<tr>
<td>POL SCI 328</td>
<td>The Arab-Israeli Conflict</td>
</tr>
<tr>
<td>POL SCI 339</td>
<td>European Integration</td>
</tr>
<tr>
<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
</tr>
<tr>
<td>POL SCI 343 (244)</td>
<td>Asian International Relations</td>
</tr>
<tr>
<td>POL SCI 346 (246)</td>
<td>U.S.-Latin American Relations</td>
</tr>
<tr>
<td>POL SCI 423</td>
<td>Conduct of American Foreign Affairs</td>
</tr>
<tr>
<td>SOC WRK 691</td>
<td>Practice Methods in Social Work: (with appropriate subtitle)</td>
</tr>
<tr>
<td>SOCIOL 215</td>
<td>Religion and Society</td>
</tr>
</tbody>
</table>
Global Sustainability Track

To earn the Bachelor of Arts in Global Studies through the Global Sustainability track, students must complete 51-56 credits in the requirements listed below. Students in this track must complete at least 36 credits in upper-division (numbered 300 or above) courses, of which 24 credits must be in L&S.

**GLOBAL SUSTAINABILITY TRACK CORE COURSES (36-41 cr)**

All six of the following courses (18 cr):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 361</td>
<td>Environment and Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 461</td>
<td>The Politics and Policy of Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>GLOBAL 561</td>
<td>Preparing for Sustainable Peacebuilding and Social Change</td>
<td>3</td>
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</table>

One of the following six courses (3-4 cr):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 568</td>
<td>Introduction to Anthropological Statistics</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 210</td>
<td>Introduction to Management Statistics</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 221</td>
<td>Elementary Quantitative Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ECON 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 247</td>
<td>Quantitative Analysis in Geography</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
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</table>

Two of the following fourteen courses (6-10 cr):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>GEOG 105</td>
<td>Introduction to Human Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 120</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 125</td>
<td>Introduction to Environmental Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 140</td>
<td>Our Urban Environment: Introduction to Urban Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 105</td>
<td>Earth, Air, Fire, and Water</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 106</td>
<td>The Earth Environment</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 150</td>
<td>Introduction to Ocean Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following three courses (3 cr):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
</table>

**SOCIOL 304**  Political Sociology  3
**SOCIOL 325**  Social Change  3
**SOCIOL 330**  Economy and Society  3
**SOCIOL 472**  Population and Society  3
**WMNS 200**  Introduction to Women's Studies: A Social Science Perspective  3
**WMNS 290**  Selected Topics in Women's Studies (with appropriate subtitle)  1-3
**WMNS 599**  Topics in Women's Studies (with appropriate subtitle)  1-3
ED POL 602 (421)  Proposal Writing and Fundraising Skills for Community-Based Organizations  3
ED POL 605 (424)  Community-Based Organization Funding  3
ENGLISH 443  Grant Writing  3

One of the following seven courses (3 cr):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOBAL/BUS</td>
<td>Cross-Cultural Management</td>
<td>3</td>
</tr>
<tr>
<td>ADM 541</td>
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</tr>
<tr>
<td>COMMUN 310</td>
<td>Communication in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 350</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 365</td>
<td>Negotiation Skills Workshop</td>
<td>3</td>
</tr>
<tr>
<td>(520)</td>
<td></td>
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</tr>
<tr>
<td>COMMUN 450</td>
<td>Cross-Cultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 675</td>
<td>Communication in International Mediation and Peacebuilding</td>
<td>3</td>
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</tbody>
</table>

One of the following six courses (3 cr):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 495</td>
<td>Special Topics in Business: Environmental Policy</td>
<td>3</td>
</tr>
<tr>
<td>CES 471</td>
<td>Principles of Natural Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 464</td>
<td>Environmental Problems</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 337</td>
<td>Environmental Ethics</td>
<td>3</td>
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</table>

GLOBAL SUSTAINABILITY ELECTIVES (15 cr)

Students must complete 15 credits from the following list.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3 (if not selected above)</td>
</tr>
<tr>
<td>ANTHRO 431</td>
<td>Urban Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3 (if not selected above)</td>
</tr>
<tr>
<td>ANTHRO 448</td>
<td>Culture and Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 449</td>
<td>Economic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 350</td>
<td>Green Architecture</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4 (if not elected above)</td>
</tr>
<tr>
<td>BIO SCI 458</td>
<td>Community Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 505</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 553</td>
<td>Seaweeds and Coastal Marine Biology</td>
<td>3</td>
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<tr>
<td>BUS ADM 485</td>
<td>Environmental Issues in Real Estate</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 495</td>
<td>Special Topics in Business: “Environmental Policy” subtitle</td>
<td>3 (if not selected above)</td>
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<tr>
<td>CIV ENG 492</td>
<td>Environmental Impact Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CES 471</td>
<td>Principles of Natural Resources Management</td>
<td>3 (if not selected above)</td>
</tr>
<tr>
<td>CES 490</td>
<td>Senior Seminar: Conservation and Environmental Science</td>
<td>4</td>
</tr>
<tr>
<td>CES 499</td>
<td>Ad Hoc: (Subtitle)</td>
<td>1-6</td>
</tr>
<tr>
<td>CES 550</td>
<td>Introduction to Science Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>CES 551</td>
<td>Application of Science Interpretation</td>
<td>3</td>
</tr>
<tr>
<td>CES 571</td>
<td>Practical Approaches to a Sustainable Future</td>
<td>3</td>
</tr>
<tr>
<td>ECON 328</td>
<td>Environmental Economics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
</tr>
<tr>
<td>ECON 525</td>
<td>The Economics of Water</td>
<td>3</td>
</tr>
<tr>
<td>FRSHWTR 502</td>
<td>Aquatic Ecosystem Dynamics</td>
<td>3</td>
</tr>
</tbody>
</table>
Global Urban Development Track

To earn the Bachelor of Arts in Global Studies through the Global Urban Development track, students must complete the following set of core courses and should consult with a Global Studies advisor at the Center for International Education.

I. GLOBAL URBAN DEVELOPMENT CORE COURSES (12-13 cr)

Both of the following courses (6 cr):
- ECON 103 Principles of Microeconomics 3
- ECON 104 Principles of Macroeconomics 3

One of the following Analytical Tools courses (3-4 cr):
- BUS ADM 210 Introduction to Management Statistics 4 cr, U^ **
- ECON 210 Economic Statistics 3 cr, U^ **
- GEOG 215 Introduction to Geographic Information Sciences 3 cr, U**
- GEOG 247 Quantitative Analysis in Geography 3 cr, U**
- MTHSTAT 215 Elementary Statistical Analysis (NS) 3 cr, U**
- PSYCH 210 Psychological Statistics 4 cr, U**
- SOCIOL 261 Introduction to Statistical Thinking in Sociology 3 cr, U**

One of the following Community and Urban Design courses (3 cr):
- ARCH 300 Architectural History and Theory 3 cr, U/G**
- ARCH 301 Architectural Technologies 3 cr, U/G**
- ARCH 302 Architecture and Human Behavior 3 cr, U/G**
- ARCH 303 Architecture and Environmental Responses 3 cr, U/G**
- ARCH 330 Design Methodology 3 cr, U/G**
- ARCH 340 Urban Design 3 cr, U/G**
- ARCH 533 Topics in Architectural Theory: “Urban Design and Practical Theory;” “Politics of Urban Disaster” subtitles 3 cr, U/G**
- ARCH 534 Field Study 3 cr, U/G**
II. UPPER-DIVISION GLOBAL URBAN DEVELOPMENT CORE COURSES (9 cr)

One of the following:

GLOBAL 321 The Global City in History 3 cr, U**
SOCIOl 495 Seminar in Sociology (with approved subtitle) 3 cr, U/G**
URBPLAN 315 Planning for Great Cities of the World 3 cr, U**

One of the following:

ARCH 533 Topics in Architectural Theory: “Politics of Urban Disaster” subtitle 3 cr, U/G^ **
GEOG 443 Cities of the World: Comparative Urban Geography 3 cr, U/G^ **
GLOBAL 421 Social Justice in the Global City 3 cr, U**

One of the following:

GEOG 540 Globalization and the City 3 cr, U/G**
GLOBAL 521 (500) Global Urban Development Capstone: Future Trends 3 cr, U

III. ELECTIVES (24 cr)

List A: Applied Approaches to Development: Students must select 12 cr from this list.

Architecture (ARCH)

ARCH 100 Introduction to Architecture (A) 3 cr, U
ARCH 101 Introduction to Architectural Theory (A) 3 cr, U
ARCH 210 Introduction to Building Technologies 3 cr, U
ARCH 280 Introduction to Architectural Drawing 3 cr, U
ARCH 281 Virtual Modeling 3 cr, U^ 
ARCH 300 Architectural History and Theory 3 cr, U/G^ **
ARCH 301 Architectural Technologies 3 cr, U/G^ **
ARCH 302 Architecture & Human Behavior 3 cr, U/G^ **
ARCH 303 Architecture & Environmental Response 3 cr, U/G^ **
ARCH 310 Architectural Fundamentals I 6 cr, U^ 
ARCH 320 Architectural Fundamentals II 6 cr, U^ 
ARCH 330 Design Methodology 3 cr U/G^ **
ARCH 340 Urban Design 3 cr, U/G^ **
ARCH 390 Special Topics (Real Estate Development) 1-3 cr, U^ 
ARCH 392 Independent Study 3 cr, U/G^ **
ARCH 410 Architectural Design I 6 cr, U^ 
ARCH 420 Architectural Design II 6 cr, U^ 
ARCH 533 Topics in Architectural Theory: “Urban Design and Practical Theory”; “Politics of Urban Disaster” subtitles 3 cr, U/G^ **

Geography (GEOG)

GEOG 247 Quantitative Analysis in Geography 3 cr, U^ **
GEOG 403 Remote Sensing: Environmental & Land Use Analysis 4 cr, U/G^ 
GEOG 525 Geographic Information Systems 4 cr, U/G^ 
GEOG 547 Spatial Analysis 4 cr, U/G^ 
GEOG 625 Intermediate Geographic Information Science 3 cr, U/G^ 

Urban Planning (URBPLAN)

URBPLAN 140 Issues in Contemporary Urban Planning (SS) 3 cr, U
URBPLAN 141 Urban Planning Solutions to Contemporary Urban Problems (SS) 3 cr, U
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>URBPLAN 315</td>
<td>Planning for Great Cities of the World</td>
<td>3 cr</td>
<td>U**</td>
</tr>
<tr>
<td>URBPLAN 591</td>
<td>Introduction to Urban Geographic Info Systems for Planners</td>
<td>3 cr</td>
<td>U</td>
</tr>
<tr>
<td>URBPLAN 614</td>
<td>Planning for the Suburbs</td>
<td>3 cr</td>
<td>U/G</td>
</tr>
<tr>
<td>URBPLAN 630</td>
<td>Budgeting and Finance in the Public Sector</td>
<td>3 cr</td>
<td>U/G</td>
</tr>
<tr>
<td>URBPLAN 651</td>
<td>Land Use Planning Practice</td>
<td>3 cr</td>
<td>U/G</td>
</tr>
<tr>
<td>URBPLAN 655</td>
<td>Negotiation Theory and Practice for Planners</td>
<td>3 cr</td>
<td>U/G</td>
</tr>
<tr>
<td>URBPLAN 661</td>
<td>Neighborhood Planning and Revitalization</td>
<td>3 cr</td>
<td>U/G</td>
</tr>
<tr>
<td>URBPLAN 662</td>
<td>Land Use Planning for Urban Redevelopment</td>
<td>3 cr</td>
<td>U/G</td>
</tr>
<tr>
<td>URBPLAN 684</td>
<td>Planning Local Economic Development</td>
<td>3 cr</td>
<td>U/G</td>
</tr>
<tr>
<td>URBPLAN 692</td>
<td>Special Topics in Architectural Theory (Land Use, Transportation, and the Environment; Suburban Downtown Redevelopment II; Transportation Planning and Policy Analysis)</td>
<td>1-3 cr</td>
<td>U/G</td>
</tr>
</tbody>
</table>

**List B: Cultural Perspectives on Development:** Students must select 12 cr from this list.

**Africology (AFRICOL):**
- AFRICOL 300 Urban Violence, 3 cr, U/G

**Anthropology (ANTHRO):**
- ANTHRO 102 Introduction to Anthropology: Culture and Society, 3 cr, U
- ANTHRO 104 Lifeways in Different Cultures: A Survey of World Societies, 3 cr, U
- ANTHRO 431 Urban Anthropology, 3 cr, U/G

**Art History (ARTHIST):**
- ARTHIST 360 Modern Architecture II: The Rise of Modern Architecture, 3 cr, U/G
- ARTHIST 361 Modern Architecture III: Contemporary Architecture, 3 cr, U/G
- ARTHIST 458 A Comparative History of Arch and Urban (with approved subtitle), 3 cr, U/G

**Business Administration (BUS ADM):**
- BUS ADM 210 Introduction to Management Statistics, 4 cr, U **

**Clinical Lab Sciences (CL SCI):**
- CL SCI 232 Introduction to Nutrition, 3 cr, U

**Conservation and Environmental Sciences (CES):**
- CES 210 Introduction to Conservation and Environmental Science (NS), 3 cr, U

**Economics (ECON):**
- ECON 210 Economic Statistics, 3 cr, U **
- ECON 323 (412) Urban Economics, 3 cr, U

**English (ENGLISH):**
- ENGLISH 214 Writing in the Professions (with approved subtitle), 3 cr, U
- ENGLISH 240 Rhetoric, Writing, and Culture (with approved subtitle), 3 cr, U
- ENGLISH 268 Introduction to Cultural Studies (with approved subtitle), 3 cr, U
- ENGLISH 624 Seminar in Modern Literature (with approved subtitle), 3 cr, U/G

**Fine Art:**
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>U/G</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINEART 389</td>
<td>Fine Arts Workshop I: (Cultural Organizations of Global Cities)</td>
<td>1-6</td>
<td>U/G</td>
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**Geography (GEOG)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>GEOG 140</td>
<td>Our Urban Environment: Introduction to Urban Geography (SS)</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Sciences</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>GEOG 330</td>
<td>Europe: East and West</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>GEOG 332</td>
<td>China: Peoples, Regions, and Development</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>GEOG 405</td>
<td>Cartography</td>
<td></td>
<td>U/G</td>
</tr>
<tr>
<td>GEOG 421</td>
<td>Geography of Latin America</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>GEOG 430</td>
<td>Geography of Transportation</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>GEOG 441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td>3</td>
<td>U/G</td>
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<tr>
<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td>3</td>
<td>U/G</td>
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<tr>
<td>GEOG 462</td>
<td>Cultural Geography of Latin America</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>GEOG 470</td>
<td>Geography of South Asia</td>
<td>3</td>
<td>U/G</td>
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<tr>
<td>GEOG 520</td>
<td>Physical Geography of the City</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>GEOG 540</td>
<td>Globalization and the City</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>GEOG 564</td>
<td>Environmental Change and Social Justice</td>
<td>3</td>
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**Global Studies (GLOBAL)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>U/G</th>
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</thead>
<tbody>
<tr>
<td>GLOBAL 321</td>
<td>The Global City in History</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>GLOBAL 421</td>
<td>Social Justice in the Global City</td>
<td></td>
<td>U</td>
</tr>
<tr>
<td>GLOBAL 361</td>
<td>Environment and Sustainability</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>GLOBAL 461</td>
<td>The Politics and Policy of Sustainability</td>
<td>3</td>
<td>U</td>
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**Health Care Administration (HCA)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>U/G</th>
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</thead>
<tbody>
<tr>
<td>HCA 245</td>
<td>Client Diversity in Health Sciences: An Interdisciplinary Perspective</td>
<td>3</td>
<td>U</td>
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</table>

**History (Hist)**

<table>
<thead>
<tr>
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<th>Credits</th>
<th>U/G</th>
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<tbody>
<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues: (with appropriate subtitle)</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>HIST 463</td>
<td>History of the American City</td>
<td>3</td>
<td>U/G</td>
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</table>

**Mathematical Statistics (MTHSTAT)**

<table>
<thead>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis (NS)</td>
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**Nursing (NURS)**

<table>
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<th>Course Title</th>
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<th>U/G</th>
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<tbody>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
<td>U</td>
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<tr>
<td>NURS 110</td>
<td>Introduction to Global Health</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>NURS 410</td>
<td>Nursing Science: Concepts in Community and Family Health</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
<td>U</td>
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</table>

**Political Science (POL SCI)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>U/G</th>
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</thead>
<tbody>
<tr>
<td>POL SCI 213</td>
<td>Urban Government and Politics (SS)</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>POL SCI 413</td>
<td>Governing Metropolitan Areas</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>POL SCI 450</td>
<td>Urban Political Problems</td>
<td>3</td>
<td>cr</td>
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<tr>
<td>POL SCI 452</td>
<td>Administrative Law</td>
<td>3</td>
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**Psychology (PSYCH)**

<table>
<thead>
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<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td>4</td>
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</table>

*These courses may have additional prerequisites and requirements. Always check the official academic catalog for the most accurate and up-to-date information.*
<table>
<thead>
<tr>
<th><strong>Public Health (PH)</strong></th>
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<tbody>
<tr>
<td>PH 101 Introduction to Public Health</td>
<td></td>
<td>3 cr, U</td>
</tr>
<tr>
<td>PH 375 Topics in Public Health for Undergrads</td>
<td></td>
<td>3 cr, U</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Religious Studies (RELIGST)</strong></th>
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</thead>
<tbody>
<tr>
<td>RELIGST 250 Topics in Religious Studies: Global Perspectives on Religion and Science</td>
<td></td>
<td>3 cr, U</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Sociology (SOCIOL)</strong></th>
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<tbody>
<tr>
<td>SOCIOL 193 First-Year Seminar: “College in the City”</td>
<td></td>
<td>3 cr, U</td>
</tr>
<tr>
<td>SOCIOL 261 Introduction to Statistical Thinking in Sociology</td>
<td></td>
<td>3 cr, U^ **</td>
</tr>
<tr>
<td>SOCIOL 377 Urbanism and Urbanization</td>
<td></td>
<td>3 cr, U^</td>
</tr>
<tr>
<td>SOCIOL 495 Seminar in Sociology: “Urban International Sociology” (and other approved subtitles)</td>
<td></td>
<td>3 cr, U/G^</td>
</tr>
<tr>
<td>SOCIOL 495 Theory of Development (Tentative title)</td>
<td></td>
<td>3 cr**</td>
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<table>
<thead>
<tr>
<th><strong>Urban Planning (URBPLAN)</strong></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>URBPLAN 316 Planning for the Great Cities of America</td>
<td></td>
<td>3 cr, U</td>
</tr>
<tr>
<td>URBPLAN 350 Social Justice, Urban Planning and the New Multicultural America</td>
<td></td>
<td>3 cr, U</td>
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<table>
<thead>
<tr>
<th><strong>Urban Studies (URB STD)</strong></th>
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</thead>
<tbody>
<tr>
<td>URB STD 193 First-Year Seminar (with approved subtitle)</td>
<td></td>
<td>3 cr, U</td>
</tr>
<tr>
<td>URB STD 250 Exploring the Urban Environment (SS)</td>
<td></td>
<td>3 cr, U</td>
</tr>
<tr>
<td>URB STD 360 Perspectives on the Urban Scene (with approved subtitle) (SS)</td>
<td></td>
<td>3 cr, U</td>
</tr>
<tr>
<td>URB STD 450 Urban Growth and Development: A Global View</td>
<td></td>
<td>3 cr, U</td>
</tr>
</tbody>
</table>

**HONORS IN THE GLOBAL STUDIES DEGREE**

Honors in the Global Studies Degree is different from all-university honors and signifies that a student has attained a significant level of achievement in their specific academic program. While the exact number of students who receive Honors in the Global Studies Degree will vary from year to year, on average recipients can be considered to rank among the top 10 percent of Global Studies graduates. Eligibility requirements for Honors in the Global Studies Degree are:

- GPA of 3.0 or higher for all graded UWM credits attempted;
- GPA of 3.50 or higher for all courses required in the Global Studies degree;
- GPA of 3.75 or higher for all upper-level courses required in the Global Studies degree (minimum of 15 credits);
- GPA of 3.75 or higher for all Global courses (minimum of 18 credits).

Non-UWM/transfer credits are excluded from GPA calculations for Honors in the Global Studies Degree.

**Awarding the Degree**

Students who complete the Global Studies degree requirements through the Global Cities track are awarded the Bachelor of Arts degree jointly by the College of Letters & Science and the School of Architecture and Urban Planning. Students who complete the Global Studies degree requirements through the Global Management track are awarded the Bachelor of Arts degree jointly by the College of Letters and Science and the Lubar School of Business. Students who complete the Global Studies degree requirements through the Global Communications track, with a minimum of 21 credits completed in the School of Information Studies, are awarded the Bachelor of Arts degree jointly by the College of Letters & Science and the School of Information Studies. All other students who complete the Global Studies degree requirements through the Global Communications track are awarded the Bachelor of Arts degree by the College of Letters and Science. Students who complete the Global Studies degree requirements through the Global Security or the Global Sustainability track are awarded the Bachelor of Arts degree by the College of Letters and Science.

**Courses**
School of Information Studies

- Web Home Page:
  - School of Information Studies
- Degree Programs
- Bachelor of Science in Information Science & Technology
- Minor in Information Science & Technology
- Master of Library and Information Science
- Courses: Information Studies (INFOST)
- Faculty and Staff

INFORMATION STUDIES

SOIS Student Services
NWQB, 3rd Floor
(414) 229-4707

www.uwm.edu/sois

Degree Programs

Bachelor of Science Information Science and Technology
The School of Information Studies offers a Bachelor of Science degree in Information Science and Technology (BSIST), an undergraduate minor in Information Science and Technology (IST), a Master of Library and Information Science (MLIS), a Certificate of Advanced Studies in Archives and Records Administration, a Certificate of Advanced Studies in Digital Libraries, and a PhD in Information Studies.

Master of Library and Information Science
The master’s program offered by the School is accredited nationally by the American Library Association.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

IST Mission Statement

The Bachelor of Science in Information Science and Technology aims to prepare graduates who are information and technology literate, and who are able to effectively deal with the theory, organization, management, and implementation of information resources and associated technologies in a range of interdisciplinary environments. In addition, we will:

- Educate students, including those who might not traditionally consider an educational path in information and technology, especially women and minorities.
- Open rewarding career opportunities by allowing students to combine the IST program with another area of study.
Serve the state of Wisconsin by way of education, community participation, and collaborative research partnerships.

- **Expand relationships** with industry to develop and advance research in Information Science and Technology and its applications in interdisciplinary environments.

- **Produce graduates** who will become leaders in the growing information economy of Wisconsin and the world.

**IST Core Competencies**

The successful BSIST student will demonstrate understanding of the following:

- theoretical nature of information science and information technologies;

- organization and architecture of information based on understanding of the context, the content, and the user needs;

- user-centered information system and service development;

- information storage and retrieval systems;

- management of information, including the processes to enable the flow of information; and

- use of information and communication technology for managing and organizing information and content.

**Bachelor of Science in Information Science and Technology Program**

Information science, on which the Information Science and Technology program is based, is the study of the organization, storage, retrieval, dissemination, and use of information. Information technology (IT) is the collection of tools that make it possible to access and use information. The Bachelor of Science Degree in Information Science and Technology (BSIST) prepares graduates who will help individuals and organizations effectively use information resources and information technology. Some graduates will go directly into jobs in business and industry sectors that rely heavily on information as a raw material or as a product. Other graduates may go on to graduate study in library and information science, information resources management, computer science, or telecommunications.

**Related Area of Study.** Each student will work with his/her advisor to select general electives, including related areas of study that are appropriate to his/her career goals and to complete the 120 total credit requirements for the BSIST degree. Because of its interdisciplinary and cross-functional nature, the BSIST program allows students to apply the study of the concepts and tools of information science, information architecture, and information technology to one or more related areas of study. The related area of study is a set of courses outside of the BSIST major, normally a minor or certificate in another field of study, typically including 18-22 credits. In some cases, students may choose to study two related areas as part of their BSIST program.

**Related Areas of Study Selected List**

- Computer Science
- Health Care Administration
- Biological Sciences
- General Business
- Library & Information Science
- Philosophy
• Global Studies
• Intelligent Systems
• Communications
• Digital Arts & Culture
• Mass Communication & Journalism

With the help of their advisor, students may also choose to create and customize their own associate area of study. This may be credit-bearing courses that students will take to prepare for certification examinations such as Microsoft certifications, CISCO, etc., or a customized selection of courses chosen by students that will sharpen their skills in one or more selected areas of study.

**Career Opportunities.** The Bachelor of Science in Information Science and Technology will give students a head start on any number of careers in the information industry:

• Information Architect
• Business Information Coordinator
• Network Manager
• IT Consultant
• Web Designer
• Technology Trainer
• Multimedia Specialist
• Human-Computer Interface Designer
• Software/Systems Developer
• Technical Writer
• Database Developer
• Digital Library Specialist
• E-Commerce Web Administrator

**Admission to the BSIST Program**

Standard UWM admission policies for freshmen and transfer students apply. Students may begin the program as freshmen or after completing several semesters as undeclared or other majors. They may begin as transfer students from another accredited college or university or as students returning to get a second degree.

In addition to being available during standard class times, the BSIST degree is available online and in the Evening Degree Program to serve students both on and off campus.

**Entrance Guidelines.** Students who meet the standard University admission requirements are admissible to the School of Information Studies. The same criteria for acceptance are applied to in-state and out-of-state students. For undergraduate admission requirements, see the Admission section of this catalog.
Advising. Students accepted by UWM who declare an interest in the IST program will be assigned a SOIS advisor. Students are expected to work closely with their IST advisor to tailor a program of electives to best suit their interests and career goals. IST students may also wish to explore minors or certificates in related areas such as computer science or technical writing.

Completing the Degree. The BSIST degree includes a total of 120 credits as follows:

**Area I:** UWM Distribution Requirements:
General Education Requirements (GER) (21 credits).

**Area II:** 27 required credits in the IST major:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFOST 110</td>
<td>Introduction to Information Science</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 210</td>
<td>Information Resources for Research</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 230</td>
<td>Organization of Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 240</td>
<td>Introduction to Web Design</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 310</td>
<td>Human Factors in Information Seeking and Use</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 340</td>
<td>Introduction to Systems Analysis</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 410</td>
<td>Database Information Retrieval Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 440</td>
<td>Web Application Development</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 490</td>
<td>Senior Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

**Area III:** Information Studies Electives (15 credits). Students take 5 additional Information Studies courses at the 300, 400, or 600 level or equivalent coursework.

**Area IV:** BSIST Cross-functional Electives (15 credits).

**Area V:** General Electives, including Associate Area(s) of Study (42 credits).

To continue and graduate in the BSIST program, each student should maintain a grade point average of at least 2.5 in the major and a cumulative grade point average of at least 2.0 on all credits counted toward the degree.

**Four Year Graduation Guarantee**

If a student satisfies all the obligations described in the Four Year Graduation Guarantee, the student will be able to complete an undergraduate degree within four years. If the undergraduate degree completion in four years is delayed by the unavailability of courses, then UWM will relieve the student of the financial tuition burden for courses still required for graduation.

**Minor in IST Option**

For undergraduate students in other degree programs outside the School of Information Studies, SOIS also offers an undergraduate minor in Information Science and Technology (IST). Fulfillment of the minor entails completion of 18 credits from the following list of courses:

**Required:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INFOST 110</td>
<td>Introduction to Information Science</td>
<td>3</td>
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**6 credits from:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>INFOST 210</td>
<td>Information Resources for Research</td>
<td>3</td>
</tr>
<tr>
<td>INFOST 230</td>
<td>Organization of Knowledge</td>
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</tr>
<tr>
<td>INFOST 240</td>
<td>Introduction to Web Design</td>
<td>3</td>
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</tbody>
</table>
Students who wish to become information and technology literate while pursuing studies in their major areas are candidates. For example, the minor is attractive to students majoring in liberal arts and social science fields where the combination of their major field with the IST minor will help prepare students for careers in information-related work. Fields that combine well with the IST minor include English (particularly Technical Writing), Modern Languages, Communication, Mass Communication, Psychology, Sociology, and the arts. It should also be of interest to students majoring in professional fields such as Computer Science and Business Administration where the courses from IST will complement their major.

For information on SOIS’s graduate degree programs, including the Master of Library and Information Science, and PhD in Information Studies, see the SOIS website at [www4.uwm.edu/sois](http://www4.uwm.edu/sois).

**School of Information Studies Courses**

*(available to all undergraduates)*

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**School of Information Studies**

---

**Faculty and Staff**

**Administration**

WooSeob Jeong  
Interim Dean & Associate Professor

Alexandra Dimitroff  
Interim Associate Dean & Associate Professor

Heidi Janzen  
Interim Associate Dean (UBR)

Karen Masetti-Moran  
Interim Assistant Dean (PREP)

Chad Zahrt  
Assistant Dean

Laura Meyer  
Business Office Assistant
Amanda Trice  
HR Assistant

Twyla McGhee  
Senior Academic Advisor

Sharon Lake  
Senior Academic Advisor

Angela Sadowsky  
Academic Advisor

Tobiah Deutsch  
Senior Academic Advisor

M. Linda Barajas  
University Services Program Associate

Rebecca Hall  
Marketing Coordinator

Richard Kessler  
Development Director

Evelyn Scott  
Secretary to the Dean

Wendy Lohr  
Administrative Assistant

Jim Schultz  
Systems Administrator

Faculty

Mohammed Aman, Prof., PhD  
University of Pittsburgh

Kim Anderson, Asst. Prof., PhD  
University of California

Rakesh Babu, Asst. Prof., PhD  
University of North Carolina

Johannes Britz, Provost, Prof., PhD  
University of Pretoria, South Africa

Alexandra Dimitroff, Assoc. Prof., PhD  
University of Michigan

Jacques du Plessis, Assoc. Prof., PhD  
Utah State University

Kendrick Gardner, Lect.  
University of Wisconsin-Milwaukee
Maria Haigh, Assoc. Prof., PhD
Drexel University

Thomas Haigh, Assoc. Prof., PhD
University of Pennsylvania

Catherine Hansen, Lect.
University of Wisconsin-Milwaukee

Laretta Henderson, Assoc. Prof., PhD
University of Iowa

Adam Hudson, Lect.
University of Wisconsin-Milwaukee

WooSeob Jeong, Assoc. Prof., PhD
Florida State University

Margaret Kipp, Asst. Prof., PhD
University of Western Ontario

Nadine Kozak, Asst. Prof., PhD
University of California-San Diego

Joyce Latham, Asst. Prof., PhD
University of Illinois

Hur-li Lee, Assoc. Prof., PhD
Rutgers University

Steven J. Miller, Sr. Lect.
University of Wisconsin-Milwaukee

Jessica Moyer, Asst. Prof., PhD
University of Minnesota, Twin Cities

Xiangming Mu, Assoc. Prof., PhD
University of North Carolina at Chapel Hill

Terrance Newell, Assoc. Prof., PhD
University of Wisconsin-Madison

Hope Olson, Prof. Emeritus, PhD
University of Wisconsin-Madison

Wilhelm Peekhaus, Asst. Prof., PhD
University of Western Ontario

Shana Ponelis, Asst. Prof., PhD
University of Pretoria, South Africa

Betsy Schoeller, Lect., PhD
University of Wisconsin-Milwaukee

Lyndsay Smanz, Lect.
University of Wisconsin-Milwaukee
UWM Undergraduate Catalog 2014-2015

College of Nursing

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NURSING

Student Affairs Office  
Cunningham Hall, Room 129  
(414) 229-5047 (Milwaukee);  
(262) 595-2480 (Parkside)  
www.uwm.edu/nursing

Degree Programs

Bachelor of Science Nursing

Master's Nursing

Doctor of Philosophy Nursing

Doctor of Nursing Practice Nursing

The College of Nursing offers a Bachelor of Science degree (BS) in nursing, a Master’s of Nursing (MN) degree, and a Doctor of Nursing Practice (DNP) degree. These nursing programs are fully approved through the State of Wisconsin Board of Nursing and accredited by the Commission on Collegiate Nursing Education. The College also offers a Doctor of Philosophy degree (PhD) in nursing.

The undergraduate program, which is offered on the Milwaukee campus and through a Consortial Program at the UW-Parkside and UW-Washington County campuses, prepares students for beginning positions of responsibility and leadership in providing professional care for clients and their families in a variety of health care settings.

Students gain experience through a range of diverse programs in classroom and clinical settings.

The Nursing Learning Resource Center (NLRC), which serves students, faculty, and the community, is an integral component of the undergraduate curriculum. This college laboratory is a mediated and simulated learning environment.
in which students perform skills foundational to safe nursing practice in settings with clients. In addition, the NLRC houses a modern, well-equipped computer laboratory.

The Dr. Harriet H. Werley Center for Nursing Research and Evaluation staff work to develop the research potential of nursing faculty, students, and the nursing community they serve. Personnel offer consultation in research design, methodology, data analysis, computer programming, grant proposal writing, and writing for publication. Center staff assist faculty who have nursing research facilitator appointments in local clinical agencies, and they contract to provide research-related services to agencies that do not have direct faculty support.

The Nursing Centers at House of Peace and Silver Spring Neighborhood Center have three purposes: 1) provide opportunities for nursing students to conduct health screening, health assessment and information gathering, and support activities; 2) demonstrate nursing as an accountable health care profession; and 3) provide low-cost health promotion care to the Milwaukee community and southeastern Wisconsin. Service programs simultaneously promote faculty practice and research activities as well as student learning experiences. Student participation in the Centers’ programs is guided by faculty.

The Center for Cultural Diversity and Global Health houses a collection of comprehensive health behavior information for culturally diverse groups in the Milwaukee community. The major goal of the center is to promote the delivery of quality health and nursing care for culturally diverse individuals, families, groups, and communities. To meet this goal, the center provides students, faculty, and health professionals stimulating learning opportunities in health care for culturally diverse groups through continuing education seminars, clinical practice models, and research in meeting the health needs of culturally diverse groups.

The College of Nursing’s Center for Nursing History includes the Inez G. Hinsvark Historical Gallery, a unique learning resource located in Cunningham Hall. The significant role of nurses in history is brought to life by artifacts, mementos, and photographs as well as borrowed collections.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students will be subject to a check of criminal conviction records, prior to acceptance of a student by the placement site. Drug testing is also a requirement prior to starting clinical, as is verification of health and immunization status. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Non-Nurse College Graduates

After prerequisites are met, non-nurse college graduates may be admitted into the professional nursing major or the master's (MN) program. Individuals’ records, including consideration of related work experiences, are assessed to assign transfer credit for previous college-level coursework and to offer opportunities for credit-by-examination.

Admission: Pre-Professional (Freshmen)

Students intending to pursue study in professional nursing are advised to complete the following units (one unit equals one year) in high school:

1/2 unit of speech (if available)
2 - 4 units of a foreign language
3 units of college preparatory mathematics at or above algebra level (required by UWM)
1/2 unit of computer science
1 unit of biology
1 unit of chemistry  
1 unit of history  
3 units of social studies  
4 units of English (required by UWM)

In addition to completing high school courses, applicants seeking admission to the pre-nursing program must either have an ACT of at least 19 (SAT equivalent of 910).

**Admission: Pre-Professional (Transfer Students)**

Students intending to transfer into the pre-nursing curriculum must meet the following criteria:

1. Completion of a minimum of 15 credits;
2. Cumulative GPA of 2.5 on all completed coursework; and
3. Completion of one transferable science class with a grade of B or better.

(The required pre-nursing science courses include: BIO SCI 101, BIO SCI 202, BIO SCI 203, CHEM 101, CHEM 103, and CLS 332.)

The policies and procedures of the College apply to all students even though the student may be enrolled in courses in another college or school within the University.

The general regulations governing UWM presented in this catalog apply to all pre-nursing students. The pre-nursing classification does not automatically guarantee acceptance into the nursing major.

**Admission: Nursing Major**

Students who seek to enter the major and meet eligibility criteria (see below) are required to file an application with the Student Affairs Office, College of Nursing. (This form is in addition to the application form required for admission to the University.) The College of Nursing’s Undergraduate Program Committee reviews the applications and makes recommendations for admission. **Admission to the nursing major is highly competitive. The average GPA of students accepted to the nursing major can be significantly higher than the minimum required GPA of 2.75 needed for application to the major.**

**Application Deadlines**

Students who seek to enter the nursing major in September must submit applications by the preceding January 15; for January entrance the deadline is the preceding August 15. Applications received after these dates will be reviewed on a space-available basis.

**Eligibility Criteria**

**Students are required to meet the following criteria to be reviewed for selection into the nursing major:**

1. Satisfactorily complete or be enrolled in the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101*</td>
<td>Chemical Science</td>
<td>4</td>
</tr>
<tr>
<td>and</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 103*</td>
<td>Survey of Biochemistry</td>
<td>4</td>
</tr>
<tr>
<td>Sociology (any)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>ENGLISH 102*</td>
<td>Writing and Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>Social Science Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BMS 332</td>
<td>Clinical Nutrition</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 101</td>
<td>General Survey of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>NURS 203</td>
<td>Growth and Development Across the Lifespan</td>
<td>4</td>
</tr>
<tr>
<td>NURS 102</td>
<td>Perspectives on Health Care Systems</td>
<td>2</td>
</tr>
<tr>
<td>NURS 101</td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>NURS 300</td>
<td>Introduction to Research</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>48</strong></td>
</tr>
</tbody>
</table>

2. Courses may be repeated only once. No more than three (3) required courses may be repeated. All credit for required courses must have been earned in the 10 years preceding progression into the nursing major. Grades of less than 2.0 (C) must be replaced by grades greater than 2.0 (C) no later than August 31 for fall applicants and December 30 for spring applicants.

3. Achieve a minimum grade point average of 2.75 on a 4.0 scale and 2.5 in the required science courses. This GPA is computed on the courses listed above.

4. Achieve a minimum grade of 2.0 (C) in each required nursing and non-nursing course as listed under 1.

5. Remove all Incompletes and replace with acceptable grades before beginning the nursing major.

6. In addition to the satisfactory completion of courses listed in 1, applicants must demonstrate competency in math and English. Competencies must be fulfilled through testing or coursework by the date of entry into the clinical major. Information about competency testing is available through your advisor.

7. A statement written by the applicant to include: reason for choosing nursing and UWM; statement of long-term plans and goals; and description of work/life experience and how these are viewed in relation to nursing.

8. A letter of recommendation is required if an applicant has been enrolled in clinical nursing courses at another College of Nursing. This reference must be from the director of that College of Nursing. The letter should reflect a positive recommendation for the student’s progression into the nursing major.

9. An interview with the student making application may be requested at the discretion of the Undergraduate Program Committee.

10. Following a review of the student’s record and the progression of the student into the nursing major, the Undergraduate Program Committee may make recommendations intended to assist the student. These recommendations will be communicated to the student.

* Enrollment in freshman-level courses is based on placement test scores. Depending on the outcome of the placement tests, one or more of the following preparatory courses may be required before enrollment in higher-level courses is permitted: CHEM 100; preparatory math courses and Math 105; ENGLISH 090, 095, and 101. Credits earned in preparatory courses do not apply to the 124 credits required for graduation.

After an offer of admission to the nursing major is made, admission is contingent on demonstration of satisfactory health as evidenced by physical examination and fulfillment of the health and immunization requirements by the
appropriate deadline. The College of Nursing reserves the right to require a student to seek advice of health care professionals where it is believed that a condition of health would impede his or her progress or jeopardize the health of others. The College of Nursing does not discriminate based on a disability and provides reasonable accommodation to qualified students on an individual basis.

**Other requirements:**

1. Prior to enrolling in the first semester of the Nursing Major, students will be expected to have some knowledge of a computer word processing application. It is not recommended that students wait until they are in the course to learn this application due to time constraints. It also will be helpful if students become familiar with computer-assisted library research and use of databases.

2. Prior to enrolling in the first clinical practice course, NURS 331, students must complete a level 3 CPR certification program. Students will be required to provide their clinical instructors with a copy of their CPR card at the first meeting of their clinical lab group.

3. Upon admission to the nursing major, successful completion of a criminal background check is required. Should a background check reveal that a student has a history of a criminal charge and/or conviction, he or she will be asked to make an appointment with the Academic Affairs Coordinator to discuss the implications of this finding on his or her educational plan. For all criminal background findings, the decision to accept a student for clinical placement will be made by the clinical agency, not the College of Nursing. More information on the Wisconsin Caregiver Background Check Law is available at [www.dhs.wisconsin.gov/caregiver](http://www.dhs.wisconsin.gov/caregiver). Consult with the College of Nursing Office of Academic Affairs at (414) 229-2310 with questions specific to this area.

**Student Responsibilities in the Major**

Students are expected to provide their own transportation, uniforms, books, supplies, equipment, and other learning resources, such as clients for practice experience, as deemed necessary to meet course objectives.

**Health.** Good physical and mental health are essential for study and practice in professional nursing. The faculty of the College of Nursing reserves the responsibility for retaining only those students who demonstrate qualities of physical and mental health generally considered to be imperative for professional nursing practice.

**Health and accident insurance is not provided for students** by the University of Wisconsin-Milwaukee, or by any clinical agency where students may be assigned for clinical experience. Nursing students are expected to provide for their own personal health and accident insurance coverage.

A physical examination and specified immunizations are required of all students prior to enrollment in nursing practice courses. Expenses of this examination are the student’s responsibility. Evidence of a physical examination - to be completed by a nurse practitioner, physician, or a physician assistant of the student’s choice - must be submitted to the UWM College of Nursing Student Affairs Office on a date specified by the College of Nursing. The examination must be completed within one year before the date on which the student begins clinical nursing coursework. Students who do not meet these requirements may not continue in a clinical nursing practicum course.

Students are required to pass a 10-panel urine drug screen prior to participating in a clinical nursing practicum course. The purposes of the drug screen are to comply with expectations of area health care agencies, to provide optimal health care, and to support professional nursing’s zero tolerance position related to the unlawful use of substances. Students must abide by the drug screen policies of each health care agency to which they are assigned for clinical practicums.

**Illness or Prolonged Absence.** Students are expected to be present at all scheduled classes and clinical laboratory experiences. Since space in nursing courses is assigned during the first week of the semester, students are expected to be present for all instructional periods during that week as well. Frequent or prolonged absences from scheduled classes and/or clinical experiences may necessitate that the student drop a nursing course. Any planned interruption in coursework should be discussed with the student’s advisor at the earliest possible date.
Safe Professional Practice in Clinical Settings. Students are expected to demonstrate patterns of professional behaviors which follow the legal and ethical codes of nursing; promote the actual or potential well-being of clients, health care workers, and self in the biological, psychological, sociological, and cultural realms; demonstrate accountability in preparation, documentation, communication, and continuity of care; and show respect for the human rights of individuals. A student whose pattern of behavior is found to be unsafe may be terminated from a clinical practicum for reason of unsafe practice at any time during the semester. If the behavior is identified before the drop date, the student will be directed to drop. If the drop date has passed, the student will receive a grade of F; for the course. In order to continue in the nursing program, a student who is terminated from a clinical practicum must appeal to the Undergraduate Program Committee for readmission to the nursing program.

Travel. Students in nursing are responsible for arranging transportation to and from all agencies or clients’ homes used to provide clinical experience for the program. They are also responsible for any related liability. Students are expected to carry insurance on their vehicles.

Uniforms. Information about the uniform, a one-time investment, is sent to each student with the official letter of acceptance into the major. Students purchase their uniforms after acceptance.

Academic Regulations

For information on actions on unsatisfactory grades and honors for scholarship, see Academic Information.

Required Grade Point Average. Every nursing student is required to maintain a minimum of a C average (cumulative GPA of 2.0 on a 4.0 scale) on all work attempted in each semester or summer session. Failure to meet this minimum GPA will automatically result in a status of academic probation.

In addition to maintaining a cumulative GPA of 2.0, a student must earn at least a C (2.0) in each required nursing course. (In a practicum nursing course, a student must earn at least a C in both the clinical and theoretical components in order to receive a C as the final course grade.) Any student who earns a grade below C (2.0) in a required nursing course is automatically dropped from the nursing major. Such a student must appeal to the Undergraduate Program Committee for readmission and permission to repeat the course in which a minimum grade of C was not earned.

In a nursing course with limited enrollment or a waiting list, qualified students who have not taken the course previously will have enrollment priority. Progression to the next level of courses is not permitted until all courses of the previous level have been successfully completed.

Dropping Courses. Students should refer to a current class schedule for information concerning existing University of Wisconsin-Milwaukee drop policy guidelines and any exceptions for individual courses.

Following admission to the nursing major, a student who wishes to drop from a required or elective clinical nursing course or to withdraw must discuss the matter with the instructor, course coordinator or department chair, and the Associate Dean for Academic Affairs. In addition, the student may wish to discuss the matter with an academic advisor in the Student Affairs Office. Written approval to drop must be secured from the instructor and the Associate Dean irrespective of the week of the semester. Any such interruption in the sequence of courses following acceptance into the major requires readmission to the clinical major. Information about applying for readmission is available in the College of Nursing’s Student Affairs Office.

Grievance Procedure. The College of Nursing has a formal written grievance procedure, available in the College of Nursing’s Student Affairs Office. A grievance is defined as any situation affecting the status of a student in which the student believes his/her rights have been compromised or denied because of an erroneous or arbitrary interpretation or application of rules. Student grievances are reviewed by the College of Nursing’s Undergraduate Program Committee, which recommends the disposition of the grievance to the Associate Dean for Academic Affairs. In addition, this Committee reviews and acts upon all cases of academic misconduct as described in Chapter UWS 17, UWM Student Disciplinary Procedures.

Degree Requirements
Students must earn a minimum of 124 semester credits to complete requirements for the undergraduate degree. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. Thirty semester credits must be completed on the Milwaukee campus; at least 20 of these credits must be earned in nursing. The required courses are listed below.

<table>
<thead>
<tr>
<th>ENGLISH</th>
<th>Credits (GER*)</th>
<th>Credits (All others)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 112/102</td>
<td>3</td>
<td>3</td>
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</tbody>
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<table>
<thead>
<tr>
<th>HUMANITIES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Consult class schedule</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THE ARTS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Consult class schedule</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HISTORY</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Any course offered by History Department</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SOCIAL SCIENCES (9 CR.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sociology â€“ any introductory course</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>3</td>
</tr>
<tr>
<td>GER â€“ Social Science Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PHYSICAL SCIENCES (14 CR.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 101</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 202, 203</td>
<td>8</td>
</tr>
<tr>
<td>CL Sci 332</td>
<td>2</td>
</tr>
<tr>
<td>Electives</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOREIGN LANGUAGE</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Successful completion of two years of the same foreign language in high school or two semesters of the same language at the college level will meet this requirement.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NURSING</th>
<th></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Pre-Nursing (11 cr.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>101 Cultural Diversity in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>102 Perspectives on Health Care Systems</td>
<td>2</td>
</tr>
<tr>
<td>203 Growth and Development Across the Lifespan</td>
<td>4</td>
</tr>
<tr>
<td>300 Introduction to Nursing Research</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Nursing Theory and Science (36 cr.)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>315 Nursing Science I: Concepts of Promoting and Maintaining Health</td>
<td>2</td>
</tr>
<tr>
<td>326 Nursing Science II: Concepts of Aging and Long-Term Care</td>
<td>3</td>
</tr>
<tr>
<td>327 Nursing Science III: Concepts of Health Care for Women and Children</td>
<td>4</td>
</tr>
<tr>
<td>327 Nursing Science IV: Concepts of Health Care for the Adult</td>
<td>4</td>
</tr>
<tr>
<td>415 Nursing Science V: Concepts of Community Health Care of Aggregates</td>
<td>3</td>
</tr>
<tr>
<td>205 Clinical Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>320 Concepts of Illness I</td>
<td>3</td>
</tr>
<tr>
<td>321 Concepts of Illness II</td>
<td>3</td>
</tr>
<tr>
<td>211 Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>403 Practice, Research, and Leadership Role Development</td>
<td>3</td>
</tr>
<tr>
<td>404 Transition into Professional Nursing Practice</td>
<td>3</td>
</tr>
<tr>
<td>440 Nursing Specialty Course</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Elective</th>
<th></th>
</tr>
</thead>
</table>
Clinical Courses
331 Foundations of Clinical Practice I  5  5
334 Foundations of Clinical Practice II  3  3
442 Nursing Practice I  8  8
443 Nursing Practice II  8  8

* All students are responsible for checking whether they must meet the UWM General Education Requirements.

Professional Credentials

Wisconsin state law requires nurses to be licensed to practice nursing within the state. Licensure is obtained by endorsement or by passing an examination. Students graduating from the College of Nursing are eligible to write the examination if they: 1) are at least 18 years of age; 2) are graduates of a high school or its equivalent; 3) are able to speak, read, and write English; and 4) pay the fee for licensure. Applicants for registration/licensure in the State of Wisconsin will be asked to state if they have ever been convicted of a criminal offense, excluding minor traffic violations. When individuals have such a conviction, an explanation is requested. An investigation may follow depending upon the circumstances and all the facts related to the situation. Some organizations may require background reviews prior to acceptance of a student by the placement site.

Registered Nurses

BSN Completion (RN-BS Program)
Flexible, affordable options have been arranged for Registered Nurses to facilitate BSN completion. These include face-to-face courses offered in partnership with area hospitals and off-site college campuses, the collaborative University of Wisconsin System BSN @ Home online option and the Flex Option allowing for the demonstration of competency through assessment. Registered Nurses who wish to earn a baccalaureate degree can progress on a full- or part-time basis, at a speed compatible with their other personal and professional commitments.

Nurses who graduated from Wisconsin Technical Colleges after Dec. 31, 1989, can transfer credits from these programs through formal VTAE articulation agreements.

Admission. Registered Nurses follow admission procedures for transfer students, with deadlines well in advance of the beginning of each semester. The Flex Option has unique admission requirements. To ensure success in enrollment and advising, individuals interested in BSN completion should consult with an advisor in the Student Affairs Office, (414) 229-5047. The advisor will provide information on all three degree completion options and route the student through the appropriate admission procedures. The advisor will also work with the student to complete an individual plan of study.

Degree Requirements. Registered Nurse students must earn a minimum of 124 semester credits to complete requirements for the undergraduate degree. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. Thirty semester credits must be completed on the UWM campus; at least 20 of these credits must be earned in nursing.

NON-NURSING CREDITS

English Composition (second semester level)  3
Humanities  3-6
The Arts  0-3
History  3

Social Science
Growth and Development  3
Sociology  3
PSYCH 101  3
Physical/Biological Sciences
Inorganic/Organic Chemistry 3
Biochemistry 3
Anatomy/Physiology 8
Microbiology 4
Nutrition 3
Subtotal 21
Electives 19-25
Subtotal 64

Competencies
Math
English

Demonstration of mathematics and English proficiency by Registered Nurse students is a requirement for enrollment in Capstone Practicum for Registered Nurses (445). Refer to the UWM Timetable for definition of competencies.

Cultural Diversity
Foreign language (may or may not apply)

NURSING CREDITS
Registered Nurse students are permitted to enroll in courses out of the usual sequence in the undergraduate curriculum with the exception of Capstone Practicum for Registered Nurses (445). This is the final course and all other required courses are prerequisite to this course.

30 Nursing credits are awarded for previous nursing experience when the first nursing core course is completed with a minimum grade of C or higher.

Advanced Nursing Courses
UWS NSG 407 Foundations of Professional Nursing Practice 3
UWS NSG 441 Chronic Care Management 3
UWS NSG 445 Community Health Nursing 3
UWS NSG 446 Research Evidence-Based Practice 3
UWS NSG 447 Leadership and Management 3
UWS NSG 453 Information Management and Health Care Technology 3
UWS NSG 454 Capstone Practicum 3
Nursing Electives 9
Subtotal 30

Equivalent courses are available on campus.

Credit Totals
Non-Nursing 64 cr.
Nursing 30 cr.
Previous Nursing Credit 30 cr.
Total 124 cr.
Courses

**UW System Collaborative Degree Program for Registered Nurses 068**

**Nursing (NURS)**

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**Faculty and Staff**

**Administration**

**Sally Lundeen**
Dean

**Kim Litwack**
Interim Associate Dean for Academic Affairs

**Rachel Schiffman**
Associate Dean for Research, Center for Nursing Research and Evaluation

**Bev Zabler**
Assistant Dean for Practice and Partnerships

**Linda Scalzo**
Director, Undergraduate Program

**Karen Morin**
Director, PhD Program

**Julie Darmody**
Director, Doctor of Nursing Practice (DNP) Program

**Ann Cook**
Director, Master of Nursing (MN) Program

**Jean Bell-Calvin**
Director, Clinical Services, Silver Spring Nursing Center

**Beth Peterman**
Director, Clinical Services, House of Peace Nursing Center and Franklin Pierce School

**Sarah Morgan**
Interim Director, Nursing Learning Resource Center

**Rochelle Nelson**
Coordinator, UWM/UW-Parkside Consortial Nursing Program
Lauren K. Glass  
Coordinator, Center for Nursing History

Anne Dressel  
Director, Center for Cultural Diversity and Global Health and Institute for Urban Health Partnerships

**Student Affairs Office**

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Assistant Dean, Student Services

Sylvia Forbes  
Program Manager, RN-BS Program

Jennifer Daood  
Graduate Advisor

Deatra Holloway  
Undergraduate Advisor

Donna Wier  
Undergraduate Senior Advisor

Ericka Wade  
UWP/Gateway Tech Advisor

Ebony Cobb  
Outreach Specialist, WCTC & MATC

Carrie Von Bohlen  
Coordinator, Academic Enrichment Center

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Karen Morin, Prof., DSN; FAAN
University of Alabama-Birmingham

Sandra Millon-Underwood, Prof., PhD; FAAN
Northwestern University

Ellen K. Murphy, Prof. Emerita, JD; FAAN
About Public Health

The UW-Milwaukee Joseph J. Zilber School of Public Health conducts rigorous public health research and scholarship, educates the current and future public health workforce, and influences the development of strategies and policies that promote health among diverse populations. Public health differs from healthcare in two main ways. First, public health is population-based. Instead of treating patients one-on-one, public health studies health trends in neighborhoods, cities, states, countries, or even across the world. Second, public health focuses on prevention. Instead of treating patients after they are sick or injured, public health professionals work to decrease rates of illness and injury.

UWM's Zilber SPH offers graduate degree programs and select undergraduate courses in-person and online. Public health courses cover a range of topics, helpful to prepare for many careers. Start with the introduction course, PH 101, and if it sparks your interest, enroll in one of our more advanced classes. These cover topics as diverse as climate change and human health, common risky behaviors in adolescence, and how factors like race impact population health.

Graduate degree programs are the Master of Public Health, the PhD in Public Health - Community and Behavioral Health Promotion, and the PhD in Environmental Health Sciences.

Undergraduate Courses
Peck School of the Arts

- Web Home Page: The Arts
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- Art
  - Courses: Art (ART)
  - Courses: Art Education (ART ED)
- Dance
  - Courses: Dance (DANCE)
- Film
  - Courses: Film (FILM)
- Music
  - Courses: Music (MUSIC)
  - Courses: Music Performance (MUSPERF)
  - Courses: Music Education (MUS ED)
- Theatre
  - Courses: Theatre BA (THR BA)
  - Courses: Theatre PTTP (THRPTTP)
- Inter-Arts
  - Courses: Fine Arts (FINEART)
- Faculty and Staff

THE ARTS

Peck School of the Arts Office of Student Services
(414) 229-4763
cwalsh@uwm.edu
www.psoa.uwm.edu

Degree Programs

Bachelor of Arts Art, Dance, Music, Theatre

Bachelor of Fine Arts Art, Art Education, Dance, Film, Inter-Arts, Music, Music Education, Theatre

Master of Arts Art

Master of Fine Arts Art, Performing Arts

Master of Music (including Music Education)

Master of Science Art Education
The Peck School of the Arts includes five departments: Art & Design, Dance, Film, Music, and Theatre. Curricula are available for students interested in careers in the arts or in teaching at the elementary, secondary, or college level. An Inter-Arts major, which prepares the student for an interdisciplinary arts career, is also offered.

**ATTENTION - Special Information Regarding Laptop Requirement in Peck School of the Arts Degree Programs.**

All students entering the following degree programs/areas in the Peck School of the Arts are required to participate in the PSOA Laptop Program:

- BFA/BA Art & Design;
- BFA/BA Dance;
- BFA Film;
- BFA Music Composition and Technology Track in the Department of Music;
- BFA Technical Production, BA Design Emphasis, BA Stage Management, and BA Theatre Education programs in the Department of Theatre; and
- BFA Interdisciplinary Arts and Technology Track (IAT) of the Inter-Arts Program.

This includes students transferring from an institution external to UWM or from another UWM program, school, or college. Requirements will include either the purchase of or regular access to a laptop. The laptop must be equipped to enable students to effectively perform all required coursework, including that accomplished during class time. For additional information, please see requirements posted on the PSOA Laptop Requirement web page: [www.uwm.edu/psoa/laptop](http://www.uwm.edu/psoa/laptop).

**Admission**

**New Freshmen.** New freshmen must meet the general University admission requirements (as described in the front section of this catalog) in addition to specific department requirements. Admission to all music programs requires an audition and a theory placement examination. Admission to the Musical Theatre track of the Inter-Arts degree program requires a live audition interview. A portfolio of art works is required by the Department of Art & Design. For details, please refer to the individual department sections of this catalog.

**Transfer Students.** Transfer students from other universities and colleges or UWM units are accepted by the Peck School of the Arts provided they meet the UWM admissions criteria and have a 2.0 cumulative GPA (on a 4-point scale). They must also meet the specific departmental audition requirements described above. Although a portfolio is not required for acceptance into the Department of Art & Design, the submission of a portfolio is helpful in evaluating a student’s work for advanced placement.

**Second Bachelor’s Degree Candidates.** Students with good scholastic records who wish to earn a second bachelor’s degree in the Peck School of the Arts must obtain the recommendation of the Peck School of the Arts department in which they wish to major before they can be accepted. Upon acceptance, students must earn in residence a minimum of 30 credits beyond the studies for the first degree and must satisfy all curriculum requirements.

**New Major Program.** By choosing this program, students who have completed baccalaureate degrees at UWM or other accredited institutions may earn an additional major only. It is not necessary to complete all requirements for an additional baccalaureate degree or to observe the 30-credit-in-residence regulation. At present, the Departments of Art & Design, Dance, Film, and Music offer majors through this option.

**Theatre Minor.** Students wishing to earn a theatre minor can do so by completing 18 credits of theatre courses as specified under the Theatre Program listing.

**Degree Requirements**

Students must earn their last 30 credits in residence at UWM. Of this total, a minimum of 15 credits must be in advanced major subjects. Under extraordinary circumstances, a student may receive permission to earn a maximum of 9 credits of the last 30 credits at another college/university but must obtain the written approval of the Director of Student
Services prior to enrollment in such courses.

**Bachelor of Arts Degree in Art, Dance, Music, and Theatre.** Requires a total of 120 credits. To receive this degree, students must fulfill the requirements listed in Nos. 1-4 under the BFA degree below. See the individual department listings in this catalog for additional information.

**Bachelor of Fine Arts Degree in Art, Dance, Film, Inter-Arts, Music, or Theatre.** Requires a total of 120-130 credits. To receive this degree students must:

1. Attain a minimum GPA of 2.0 for all university-level work;
2. Fulfill all the curriculum requirements of the School and of the departmental major, and the University’s General Education Requirements;
3. Meet the specific departmental standards; and
4. Fulfill the residence requirements as detailed above.

**Bachelor of Fine Arts Degree with Teacher Certification in Art or Music and Bachelor of Arts Degree in Theatre with Teacher Certification.** The BFA degree in Art Education or Music Education requires a total of 130 credits; the BA degree in theatre with teacher certification requires a total of 120 credits. To receive these degrees students must:

1. Attain a minimum cumulative GPA of 2.75;
2. Fulfill all curriculum requirements of the School, of the departmental major, and the University’s General Education Requirements;
3. Fulfill the certification requirements in human relations (see School of Education section of this catalog), developmental reading, and exceptional education (see Teacher Certification Program description below for details and admission requirements);
4. Fulfill the Act 31 certification requirement regarding "specific attention to the history, culture and tribal sovereignty of the federally recognized American Indian tribes and bands located in this state" through selected coursework. Consult with the Director of Student Services for specific courses; and
5. Fulfill residence requirements as described above.

**Post-baccalaureate Teacher Certification Program.** Offered in art, dance, music, and theatre. All applicants should consult the appropriate department chairperson concerning requirements in these programs.

**Teacher Certification Program - Peck School of the Arts**

**Requirements for Employment, Licensing, or Professional Organizations.** Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

All PSOA teacher education students (Art, Dance, Music, Theatre) are required to keep a portfolio of evidence to document satisfaction of PI 34 standards. Portfolio content is defined, evaluated, and reviewed by individual programs. Passing scores on the Praxis I and successful completion of K-12 required classes are required before admission to student teaching. Art, music, and theatre teacher education students are also required to pass the content test (Praxis II) prior to student teaching. See specific program for more information.

**Admission Requirements.** All students should submit an application to the Director of Student Services and confer
with the Education area head of their department.

**Art education** students may apply to the program upon completion of **30 credits** if they have fulfilled the freshman year foundation courses in art and the requirements listed below.

**Music education** majors may apply upon completion of 58 credits and junior standing and the listed requirements.

**Theatre teacher certification** students may apply upon completion of the required 32-credit core in the major, junior standing, and the requirements listed below. In addition, theatre certification students must successfully pass an interview with theatre certification faculty.

All students must attain the following before making application to the teacher certification programs in art, music, and theatre:

**Grade Point Average.** 2.75.

**Communication Competency.** A grade of C in one of the following: Commun 101, 103, or 201. The communicative abilities of students remain under constant review as a factor for retention in the program. Students experiencing communication difficulty may be remanded for remedial work. Students who have satisfactorily completed an interpersonal course at another college or university may request an evaluation of their communication status through the Department of Communication.

**English Composition Requirement.** The English Composition Requirement is satisfied by earning a grade of C or higher in English 102 or its equivalent, or by scoring 637 or better on the English Placement Test (or an appropriate score as determined by the Department of English on the English ACT examination).

**Mathematical Skills Requirement.** Must be demonstrated by achieving a placement code of at least 30 on the mathematics placement test, or by earning at least 3 credits with a grade of C or higher in Mathematical Sciences 105, 106, 109/175, or equivalent courses.

**Pre-Professional Skills Test (PPST).** Must earn scores in Reading 175, Math 173, Writing 174. Registration forms are available in the Peck School of the Arts Office of Student Services.

**Developmental Reading Course Requirement.** All teachers of special subjects (e.g., music, art, theatre) wishing to be certified by the State of Wisconsin (K-12) must complete one course in developmental reading at the elementary or secondary level.

At present, the Department of Curriculum and Instruction offers Curriculum and Instruction 343, for those interested in the elementary level, and Curriculum and Instruction 545, for those interested in the secondary level. Only one of these 3-credit courses is necessary to fulfill the requirement. This course may be applied toward the core curriculum requirement.

**Exceptional Education Requirement.** Persons applying for an initial license to teach any subject in the elementary and secondary schools of Wisconsin after July 1, 1981, must have completed at least 3 credits or the equivalent study of exceptional education to be eligible for a license. See the Art, Dance, Music, or Theatre Department sections for appropriate course requirements.

**Student Teaching.** Eligibility for student teaching is determined by admission to the Teacher Certification Program of the Peck School of the Arts, departmental recommendation, and completion of all prerequisite courses and any other departmental requirements.

In general, education methods courses are not transferable from other institutions. These courses must be taken in residence. Other criteria include removal of all incompletes in required courses, compliance with the Human Relations Requirement, satisfactory class standing, health clearance, recommendation by the department, and submission of the student teacher application.
Applications to student teach during the first semester are due March 15; during the second semester, October 15. Application blanks are available in, and must be filed with, the Peck School of the Arts Office of Student Services. No applications will be accepted after these dates.

**Teacher’s License Applications.** Students eligible for graduation are not automatically recommended for certification to the State Department of Public Instruction. They must first be approved for certification by their departments.

After all requirements for the BFA or BA degree with Teacher Certification or a post-baccalaureate degree certification program are completed, and the departmental approval is obtained, a student may apply for a state teacher’s license. A Wisconsin Credential Application form is available from the Peck School of the Arts Office of Student Services, UWM, Milwaukee, Wisconsin 53201, or from the Wisconsin Department of Public Instruction, 126 Langdon Street, Madison, Wisconsin 53702.

The Department of Public Instruction conducts a criminal record check of each applicant for a teaching license. Based on this information, an applicant may be denied a license even if recommended for certification by the University.

**Declaration of Submajor**

In most instances, after two years of basic preparatory courses in the major, students choose an area of specialization within their respective departments, known as a submajor. Students must declare a submajor after they have accumulated 45 to 75 credits in order to assure completion of the appropriate curriculum requirements for graduation.

**Academic Regulations**

For information on actions on unsatisfactory grades and honors for scholarship, see Academic Information - University-wide Academic Action Policy, and Honors for Scholarship.

**Semester Credit Load.** A full-time Peck School of the Arts student is one who takes a minimum of 12 credits per semester. Normally, Peck School of the Arts students are not permitted to carry more than 18 credits per semester. Students who have a cumulative GPA of 3.0 or higher may, with the permission of the Peck School of the Arts Office of Student Affairs, carry up to 20 credits per semester.

**Program Changes.** All program changes must be signed by the instructor and the Peck School of the Arts Office of Student Services.

No studio or performance courses may be dropped after the second week of classes without the written approval of the instructor and the department chairperson. Certain other courses may require this approval also and these will be indicated in the semester’s *Schedule of Classes*.

For general information and instructions regarding program changes, see [www4dev.uwm.edu/ugecatalog/AcademicInfo.html](http://www4dev.uwm.edu/ugecatalog/AcademicInfo.html).

**Audit Courses.** No studio or performance courses may be audited. For general information regarding the UWM audit policy, see Academic Opportunities.

**Independent Study.** Under special conditions, juniors and seniors are permitted to take courses in independent study. For regulations on independent study, see the departmental advisor.

**Special Opportunities**

**Honors Program.** The Peck School of the Arts confers a Bachelor of Fine Arts Honors degree upon those students who complete the University Honors Program. The Honor designation appears on both the diploma and transcript.

This program is administered by the College of Letters & Science and offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences to qualified students who desire more intensive and
individualized studies. Application forms and further information are available from the Honors College, Honors House 154, (414) 229-4658.

Foreign Study. The Peck School of the Arts looks favorably upon foreign educational experiences and encourages students to seek study abroad at accredited institutions. Every effort will be made to integrate such courses into a student’s major program. Students should consult the departments involved prior to registration at a foreign university.

Periodically, the Department of Art & Design offers credit courses in foreign countries under the direction and instruction of Department of Art & Design faculty members.

The Arts Core Curriculum

In addition to the specific requirements of their majors, all Peck School of the Arts students must fulfill the core curriculum (45 cr) which includes competency in English composition and mathematical skills as described below. Students need not complete the core curriculum before registration in a professional program.

They are expected to begin work in their major fields during the freshman year. Core courses are taken concurrently with the course sequence of the major. Any questions regarding core curriculum requirements or changes should be directed to the Peck School of the Arts Office of Student Services.

The core curriculum requires a minimum of 45 credits and includes the University’s General Education Requirements.

COMPETENCY REQUIREMENTS

Oral and Written Communication (OWC) Competency

**OWC Part A:** Completion of OWC Part A can be demonstrated by satisfying one of the following options:

1. Earning at least three credits with a grade of C or higher in English 102;* or
2. Transferring at least three credits with a grade of C or higher in a course equivalent to English 102 or higher level expository writing course;* or
3. Achieving an appropriate score on the English Placement Test (EPT).

**OWC Part B:** The OWC Part B is satisfied by completing an approved advanced course (at least three credits) with a significant written or oral communication component by students who have completed the Part A requirement.

Peck School of the Arts majors should contact the PSOA Student Services Office for information on the course in their major that will satisfy the OWC Part B requirement.

Quantitative Literacy (QL) Competency

**QL Part A.** Completion of QL Part A can be demonstrated by satisfying one of the following options:

1. Earning at least three credits with a grade of C or higher in Math 103 (formerly 106), 105, 175 or equivalent courses;* or
2. Achieving a placement code of at least 30 on the mathematics placement test.

**QL Part B.** The QL Part B is satisfied by completing at least one approved QL Part B course (at least three credits) as decided by the major. QL Part B courses make significant use of quantitative tools in the context of other course material.

* These courses may not be taken credit/no credit if they are to be used to satisfy the OWC Part A requirement or QL Part A requirement.

Foreign Language. Completion of the foreign language requirement can be demonstrated by satisfying one of the
following options:

1. Complete with passing grades, prior to enrollment at UWM, at least two consecutive years of high school-level instruction in a single foreign language; or

2. Complete with passing grades at least two consecutive semesters (minimum of 6 credits) of college level instruction in a single foreign language; or

3. Demonstrate foreign language ability at least equivalent to No. 2 above by means of a satisfactory score on an approved placement, proficiency, departmental or other appropriate examination.

DISTRIBUTION REQUIREMENTS AND ELECTIVES: 30 CREDITS

Thirty credits of distribution requirements and electives chosen from any school or college outside the Peck School of the Arts:

- Arts (appropriate courses earned in the major may satisfy) 3
- Humanities 6
- Social Sciences 6
- Natural Sciences 6
- Cultural Diversity (May be met by any 3-credit course so designated and which has been approved for GER distribution in the humanities, social sciences, or the arts.) 0-18
- Electives (depends upon the major)

Two courses, totaling 6 credits, must be taken in the humanities, social sciences, and natural sciences. At least one of the natural science courses must include a laboratory or field experience. Courses which satisfy this distribution requirement are listed in the current Schedule of Classes. Special departmental curricula may specify certain courses to be included in the 30-credit requirement. Consult curriculum requirements.

PECK SCHOOL OF THE ARTS COURSE REQUIREMENT: 12 CREDITS

Twelve credits are required in Peck School of the Arts courses outside the student’s discipline, i.e., art, dance, film, music, or theatre. These credits are to be distributed as follows: 3 credits must be taken in each of three Arts disciplines. The remaining 3 credits may be taken in any one of the four disciplines outside the student’s major. (Do not confuse the term "discipline" with a concentration, e.g., ceramics, music performance, or costume construction, etc.)

For Art Majors Only: Six credits are required in Peck School of the Arts courses outside the student’s major, with at least 3 credits in each of two Peck School of the Arts disciplines.

The remaining 6 credits may be elected either from the other Peck School of the Arts disciplines or from an academic area after consultation with an advisor in your submajor.

Note: A maximum of 6 credits of Peck School of the Arts workshop courses (Fine Arts 189 and 489) may be substituted for a specific course or courses in a Peck School of the Arts discipline(s) with the approval of the Peck School of the Arts Office of Student Services. Special departmental curricula may specify certain courses to be included in the above 12-credit requirement. Consult curriculum requirements.

A list of suggested courses to fulfill this requirement is available in the Peck School of the Arts Office of Student Services.

Free Electives: 3 Credits

Remaining credits (3) of the 45-credit total required may be elected from any area of the University, including Peck School of the Arts courses outside the student’s discipline.

Faculty and Staff
Administration

Scott Emmons
Dean

Kimberly Cosier
Associate Dean

James Burmeister
Interim Assistant Dean

Robert Scudder
Assistant Dean Emeritus

Louis Molina
Assistant Dean of Student Services

Art & Design

John Balsley, Prof. Emeritus, MFA

Kimberly Beckmann, Assoc. Prof., MFA
Cranbrook Academy of Art

Adream Blair, Assoc. Prof., MA
North Carolina State University

Marna Brauner, Prof., MFA
California College of Arts and Crafts

Robert Burkert, Prof. Emeritus, MS

Kyoung Ae Cho, Prof., MFA
Cranbrook Academy of Art

Allison Cooke, Sr. Lect., MFA
University of Wisconsin-Milwaukee

Kimberly Cosier, Assoc. Prof., PhD, Assoc. Dean
Indiana University

Christopher Davis-Benavides, Prof., MFA
University of Wisconsin-Milwaukee

Raoul Deal, Sr. Lect., MA
National School of Plastic Arts, UNAM (San Carlos)

Frankie Flood, Assoc. Prof., MFA
University of Illinois, Champaign-Urbana

Lee Ann Garrison, Assoc. Prof., MFA
University of Wisconsin-Milwaukee
Vicki Grafentin, Assoc. Prof. Emerita, MFA

Shelleen Greene, Assoc. Prof., PhD
University of California, Irvine

Karen Gunderman, Prof., MFA
University of Michigan-Ann Arbor

Rolf Hickman, Prof. Emeritus, MEd

Yevgeniya Kaganovich, Assoc. Prof., MFA, Chair
State University of New York at New Paltz

Kay Knight, Assoc. Prof., MFA
Washington University

Charles Kraus, Prof. Emeritus, MFA

Rina Kundu, Asst. Prof., PhD
Ohio State University

Frank G. Lutz, Prof. Emeritus, MFA

Ryan Mandell, Asst. Prof. MFA
Indiana University

Jessica Meunineck Ganger, Asst. Prof., MFA
Minneapolis College of Art and Design

Lisa Moline, Assoc. Prof., MFA
University of Wisconsin-Madison

Joseph Mougel, Asst. Prof., MFA
University of New Mexico

William Nichols, Prof. Emeritus, MFA

Narendra Patel, Prof. Emeritus, MFA

Stephen Pevnick, Prof., MFA
Washington University at St. Louis

Adolph Rosenblatt, Prof. Emeritus, BFA

Stephen B. Samerjan, Assoc. Prof. Emeritus, MFA

Denis Sargent, Prof. Emeritus, MFA

William Smith, Prof. Emeritus, PhD

Nathaniel Stern, Assoc. Prof., PhD
New York University

Laura Trafi-Prats, Assoc. Prof., PhD
University of Barcelona, Spain

Leon Travanti, Prof. Emeritus, MFA

Leslie Vansen, Prof., MFA
University of Colorado

Dora Von Bargen, Prof. Emerita, MEd

Christine Woywod, Asst. Prof., PhD
Northern Illinois University, Dekalb

Dance

Ferne Caulker-Bronson, Prof., BS
University of Wisconsin-Milwaukee

Simone Ferro, Prof., MFA, Chair
University of Iowa

Maria Gillespie, Asst. Prof., MFA
University of California, Los Angeles

Gloria Gustafson, Assoc. Prof. Emerita, BA

Mary Hibbard, Asst. Prof. Emerita

Elizabeth Johnson, Sr. Lect., MFA
University of Illinois at Urbana-Champaign

Danielle Kuepper, Sr. Lect., MFA
University of Wisconsin-Milwaukee

Marcia Parsons, Prof., M.A.
University of Illinois at Urbana-Champaign

Luc Vanier, Assoc. Prof., MFA
University of Illinois at Urbana-Champaign

Darci Brown Wutz, Assoc. Prof., MFA
Smith College

Film

Richard Blau, Prof. Emeritus, PhD

Carl Bogner, Sr. Lect., BFA
University of Wisconsin-Milwaukee

Portia Cobb, Assoc. Prof., MA
San Francisco State University

Cecelia Condit, Prof., MFA
Tyler School of Art, Temple University
Rob Danielson, Assoc. Prof. Emeritus, MFA

Steven Foster, Prof. Emeritus, MFA

Kelly Kirshtner, Asst. Prof., PhD
University of California, Irvine

Diane Kitchen, Prof. Emerita, MFA

Stephen Wetzel, Asst. Prof., MFA
University of Wisconsin-Milwaukee

Iverson White, Assoc. Prof., MFA
University of California, Los Angeles

Rob Yeo, Assoc. Prof., MFA, Chair
School of the Art Institute of Chicago

Music

Elena Abend, Sr. Lect., MM
The Juilliard School

Beverly Belfer, Sr. Lect., MM
University of Wisconsin-Milwaukee

Barry Benjamin, Prof. Emeritus, BM

Efim Boico, Prof., Diploma
Gnessin Music School, Moscow, Russia

Jane Bowers, Prof. Emerita, PhD

Mitchell Brauner, Assoc. Prof., PhD
Brandeis University

James Burmeister, Sr. Lect. and Interim Asst. Dean, MM
University of Michigan

Christopher Burns, Assoc. Prof., DMA
Stanford University

John Climer, Prof., DMA
University of Missouri-Kansas City

Jennifer Clippert, Asst. Prof., DM
Northwestern University

Robert Cohen, Artist-in-Residence, Diploma
Guildhall School of Music and Drama, London

Wayne Cook, Prof. Emeritus, MS
Scott Corley, Sr. Lect., MM
University of Georgia

Margery Deutsch, Prof. Emerita, MM

William H. Duvall, Jr., Assoc. Prof. Emeritus, MMA

Thomas Dvorak, Prof. Emeritus, MM

Scott Emmons, Prof., PhD, Dean
Eastman School of Music

Valerie Errante, Assoc. Prof., DMA
Eastman School of Music

Ralph Evans, Prof., DMA
Yale University

Sheila Feay-Shaw, Assoc. Prof., PhD
University of Washington

Gregory Flint, Assoc. Prof., BM
Northwestern University

Robert Goodberg, Prof. Emeritus, MA

Curt Hanrahan, Sr. Lect., MM
University of Wisconsin-Madison

Gloria Hansen, Sr. Lect., MM
University of Wisconsin-Milwaukee

Sharon A. Hansen, Prof., DMA
University of Missouri-Kansas City Conservatory of Music

Kevin Hartman, Prof. MM
Northwestern University

William Heinrichs, Assoc. Prof., PhD
University of Iowa

Jerry Horner, Prof. Emeritus, MM

Rene Izquierdo, Assoc. Prof., MM
Yale University

Judit Jaimes, Prof. Emerita, BM

Stefan Kartman, Assoc. Prof., MM
Juilliard School of Music

Jun Kim, Asst. Prof., DMA
University of Cincinnati
Eloise Koelling, Assoc. Prof. Emerita

Abram Loft, Distinguished Prof. Emeritus, PhD

Franklin S. Miller, Assoc. Prof. Emeritus, PhD

Jonathan Monhardt, Sr. Inst. Spec., PhD
University of Iowa

Daniel Nelson, Prof. Emeritus, MM

Stephen Nelson-Raney, Sr. Lect. Emeritus, MMEd

Tim Noonan, Sr. Lect., PhD
University of Wisconsin-Madison

Mary Pautz, Assoc. Prof. Emerita, PhD

Jeffry Peterson, Prof., MM
University of Illinois-Urbana

Robert Porter, Assoc. Prof. Emeritus, MM

Gillian Rodger, Assoc. Prof., PhD
University of Pittsburgh

Tanya Kruse Ruck, Asst. Prof., MM
University of Cincinnati

William R. Schmid, Prof. Emeritus, PhD

John Stropes, Faculty Associate, BS
University of Wisconsin-Milwaukee

Gregoria Karides Suchy, Prof. Emerita, MM

Robert K. Thompson, Prof. Emeritus, BM

Jon Welstead, Prof., PhD, Chair
University of Iowa

Yehuda Yannay, Prof. Emeritus, DMA

Bernard Zinck, Assoc. Prof., MM
The Juilliard School

Theatre

Anne Basting, Prof., PhD
University of Minnesota

Richard H. Graham, Assoc. Prof., BFA
North Carolina School of Performing Arts
Christopher Guse, Assoc. Prof., BFA
University of Wisconsin-Milwaukee

Rebecca Holderness, Assoc. Prof., MFA
Columbia University

Anthony Horne, Asst. Prof., MFA
University of Memphis

Jeffrey Lieder, Assoc. Prof., MFA
Ohio State University

Michelle Lopez-Rios, Assoc. Prof., MFA
University of Houston

Raeleen McMillion, Sr. Lect., MFA
Ohio University

Robin Mello, Assoc. Prof., PhD
Lesley University

Corliss E. Phillabaum, Prof. Emeritus, PhD

Pamela Rehberg, Prof., MFA
Northern Illinois University

Alvaro Saar Rios, Asst. Prof., MFA
Northwestern University

Pamela Schermer, Assoc. Prof., MFA
Queens College

LeRoy Stoner, Assoc. Prof., MA, Chair
Indiana University

Sandra Strawn, Prof., BSE
Emporia State University

Jewel Walker, Prof. Emeritus

William Watson, Assoc. Prof., MFA
University of Washington

Stephen White, Sr. Lect., MFA
Northwestern University
Helen Bader School of Social Welfare

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**SOCIAL WELFARE**

*Student Services*
*Enderis Hall, Room 1110*
*(414) 229-4852*
*www.uwm.edu/hbssw*

**Degree Programs**

**Bachelor of Science** Criminal Justice, Social Work

**Master of Science** Criminal Justice

**Master of Social Work**

The Helen Bader School of Social Welfare offers programs to educate students about social policies and programs, and to train them for beginning level practice in a variety of professional roles in social work and criminal justice. Its location in metropolitan Milwaukee gives students numerous opportunities to gain practical experience in social, health, educational, or criminal justice agencies.

Undergraduate majors in both social work and criminal justice lead to the Bachelor of Science degree, and are designed to prepare students for available entry-level positions in their respective fields. These programs also provide excellent preparation for graduate work.

The School also offers graduate programs at the master’s degree level in both criminal justice and social work (see the UWM Graduate School Bulletin).

**Requirements for Employment, Licensing, or Professional Organizations.** Effective October 1, 1998, changes in Chapters 48 (Children’s Code) and 50 (Uniform Licensure) of the Wisconsin State Statutes make it a requirement for selected organizations to perform rigorous background checks of persons who provide care for vulnerable adults and
children or who have access to people who receive such care.

The results of these background checks are intended to help employers and government officials in making employment and licensing decisions. The law affects anyone who is employed as a caregiver or who has access to clients within caregiving organizations, including students. The organizations required to perform these background checks are those which are regulated by the State Department of Health and Family Services (DHFS).

The law means that if you are going to train (including a field or clinical placement) or work in an agency providing care to vulnerable adults or children, and that agency is regulated by DHFS, a background check will be required of you. A background check may be required even if you do not have direct caregiving responsibilities to clients. Depending on the circumstances, a student may be disqualified from field placement in certain agencies as a result of this law. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly.

**Admission**

*Freshmen* entering UWM who indicate an interest in criminal justice or social work are admitted directly into the Helen Bader School of Social Welfare, and are designated criminal justice or social work intended majors.

Admission to the University does not guarantee enrollment in the social work or criminal justice major; separate applications will be required for these programs in the junior year.

*Transfer students* who transfer from outside UWM to criminal justice or social work become criminal justice or social work intended majors upon admission regardless of the number of credits they transfer. They can apply for admission to the major when they have at least junior standing and have completed one full-time semester or the equivalent at UWM. Those who transfer from two-year UW College campuses, Milwaukee Area Technical College, and other two-year institutions (junior colleges) are generally allowed to transfer up to 72 credits toward a degree in the Helen Bader School of Social Welfare.

*Second bachelor’s degree students* applying to the University who already hold one bachelor’s degree and who wish to pursue a second degree in either criminal justice or social work are admitted as intended majors and then apply for admission to the major. They must complete at least 30 credits at UWM beyond the credits which counted toward the first degree, and must satisfy the same degree and curriculum requirements as students working towards a first degree in the same major.

Special students in the Helen Bader School of Social Welfare and University Special Students are permitted to register in any undergraduate course offered by the School, provided they meet the stated prerequisites or are admitted to the course by the instructor.

**Degree Requirements**

To receive the bachelor’s degree with a criminal justice or social work major, the student must complete at least 30 degree credits at UWM. In both majors, an overall GPA (including non-UWM college work) of 2.0 and a total of 120 credits are needed for graduation. At least 15 credits in the criminal justice or 21 credits in the social work portion of the major must be earned at UWM. Social work students must complete at least one semester of field placement at UWM. Students must earn their last 30 credits at UWM.

**Course of Study**

All social work and criminal justice majors who began their education in fall 1999 or later must meet the requirements below. Others should contact an advisor in the School to determine their degree requirements.

**GENERAL CURRICULUM REQUIREMENTS: SOCIAL WORK AND CRIMINAL JUSTICE**

For courses which satisfy the distribution requirements in humanities, natural science, and social science see the GER
listing in the current Timetable. The UWM General Education Requirements apply to all students who were not enrolled in an accredited institution prior to 1986.

**Proficiency Requirements in English and Mathematics.** Refer to General Education Requirements. Contact a school advisor for specific information.

**Liberal Arts Foundation.** The student must fulfill the following course distribution requirements:

**Arts.** 3 credits of General Education-approved arts course in the history, philosophy, theory, or practice of the creative and interpretive arts.

**Foreign Language.** Completion of two years of high school-level instruction in a single foreign language, or satisfactory completion of at least two semesters of a single foreign language, or approved demonstration of foreign language ability.

**Humanities.** 12 credits of General Education-approved humanities courses, including Commun 103, Public Speaking.

**Natural Science.** 6 credits of General Education-approved natural science courses to include a lab or field course.

**United States History and Institutions, 6 credits.** Either one continuous-year course in U.S. history chosen from option I below or one semester in advanced U.S. history courses (numbered over 400) plus one of the courses taken from option II.

**OPTION I**

HIST 151 American History: 1607 to 1865 3
and
HIST 152 American History: 1865 to the Present 3
or
HIST 421 American Thought and Culture: To 1860 3
and
HIST 422 American Thought and Culture: Since 1860 3

**OPTION II**

ECON 100 Introduction to Economics 3
ECON 103 Principles of Economics 3
POL SCI 104 American Politics: The National Scene 3
POL SCI 105 State Politics 3
POL SCI 385 American Political Thought 3
POL SCI 405 State Government 3
POL SCI 411 Constitutional Law: The Supreme Court and Political Process 3
POL SCI 412 Constitutional Law: Individual Rights and Liberties 3
POL SCI 471 Special Problems in Civil Liberties 3
SOCIOL 200 Contemporary American Society 3

**REQUIREMENTS IN THE MAJOR**

A minimum total of 57-69 credits is required. See the section on the social work and criminal justice majors.

**ELECTIVES**

Students may take up to 30 elective credits in courses outside the Helen Bader School of Social Welfare and the College
of Letters & Science. Credits earned in H687 (Senior Honors Project) or H688/689 (Senior Honors Thesis) will not count towards either major.

**Academic Regulations**

For information on actions on unsatisfactory grades and honors for scholarship, see Academic Information.

**Semester Course Load.** Registration for more than 18 credits in a given semester requires the advisor's permission. For students in the School’s majors, this permission will be given upon advice of the appropriate program chair.

**Change in Requirements.** If curriculum requirements are changed after the student has been formally accepted in the major, the student is free to remain with the former requirements or to follow the new ones.

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**Social Work**

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**Criminal Justice**

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**Faculty and Staff**

**Administration**

**Stan Stojkovic**
Dean

**Gwat Lie**
Associate Dean

**Deborah Padgett**
Chair, Social Work Department

**Margaret Maillet**
Coordinator, Undergraduate Social Work Program

**Rick Lovell**
Chair, Criminal Justice Department

**Social Work**

**Lisa Berger, Assoc. Prof., PhD**
University of Wisconsin-Milwaukee

**Michael Brondino, Assoc. Prof., PhD**
University of South Carolina

**Michael Fendrich, Prof., PhD**
University of Texas-Austin
Robert Hanus, Clinical Assoc. Prof., M.S.W.
University of California, Berkeley

Goldie Kadushin, Assoc. Prof., PhD
University of Illinois-Chicago

Sharon Keigher, Prof., PhD
University of Chicago

Jung Kwak, Asst. Prof, PhD
University of South Florida

Gwat Lie, Assoc. Prof., PhD
University of Wisconsin-Madison

Susan Loeher, Assoc. Prof., M.A.
University of Chicago

Margaret Maillet, Senior Lecturer, PhD
Louisiana State University

Katie Mangan, Clinical Assoc. Prof., M.S.W.
University of Wisconsin-Milwaukee

Joshua Mersky, Asst. Prof., PhD
University of Wisconsin-Madison

Steve McMurtry, Prof., PD
University of Wisconsin-Madison

R. L. McNeely, Prof., PhD
Brandeis University

Laura Otto-Salaj, Assoc. Prof., PhD
Temple University

Deborah L. Padgett, Assoc. Prof., PhD
Washington University, St. Louis

David Pate, Asst. Prof., PhD
University of Wisconsin-Madison

Susan Rose, Assoc. Prof., PhD
University of Illinois-Chicago

Jerrold Rousseau, Clinical Asst. Prof., M.S.S.W.
University of Wisconsin-Madison

James Dimitri Topitzes, Asst. Prof., PhD
University of Wisconsin-Madison

Wendy Volz Daniels, Clinical Assoc. Prof., M.S.W.
Loyola University

Jeanne Wagner, Clinical Asst. Prof., M.S.W.
Jane Addams College of Social Work
College of Health Sciences

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- Kinesiology
- Pre-Physical Therapy
- Courses: Human Movement Sciences
- Courses: Sport & Recreation
- Nutritional Sciences (Interdisciplinary)
- Occupational Studies
- Courses: Occupational Studies
- Courses: Therapeutic Recreation
- Certificate Program in Older Adult Fitness
- Certificate Program in Strength and Conditioning
- Certificate Program in the Study of Complementary and Alternative Medicine
- Certificate Program in Forensic Sciences
- Certificate Program in Health Care Informatics
- Certificate Program in Nutrition
- Certificate Program in Molecular Diagnostics
- Certificate Program in Therapeutic Recreation
- Therapeutic Recreation
- Faculty and Staff

College of Health Sciences

Office of Student Affairs
2025 E. Newport
NWQ Building B 6th floor
(414) 229-2758
chs-info@uwm.edu
http://www.uwm.edu/CHS
Degree Programs

**Bachelor of Science** Athletic Training, BioMedical Sciences (BMS-BioMedical Science, BMS-Cytotechnology, BMS-Diagnostic Medical Sonography, BMS-Medical Technology, BMS-Public Health Microbiology, BMS-Radiologic Technology), Communication Sciences and Disorders (CSD-Health Care Track, CSD-School Track), Health Care Administration (HCA), Kinesiology, Nutritional Sciences, and Occupational Studies.

**Master of Science** BioMedical Sciences, Kinesiology, Communication Sciences and Disorders, Occupational Therapy, and Health Care Informatics

**Doctor of Philosophy** Health Sciences and Kinesiology (under development)

**Doctor of Physical Therapy**

Faculty and Scholars

UWM's College of Health Sciences' faculty comprises an esteemed group of scholars. The research activities of our faculty and staff encompass groundbreaking urban and population studies, pioneering biomedical research investigations, advances in movement science, ingenious rehabilitation research and development, innovative applied clinical technologies, and novel disease prevention approaches. These activities are supported by the resources of four academic centers and thirteen state of the art laboratories within the college, and millions of dollars in funds from reputable institutions, such as the National Institutes of Health, the National Science Foundation, the Center for Disease Control and Prevention and the US Department of Education.

Facilities: Laboratories, Centers, and Clinics

**CLINICS** (open to the public): Speech and Language Clinic, Hearing Evaluation Center

**LABORATORIES** (Research and Teaching)

**Communication Sciences and Disorders:** Speech and Hearing Science, Stuttering and Fluency, Augmentative and Alternative Communication, Speech Physiology, Dysphagia, Child Language.

**BioMedical Sciences:** Clinical Laboratory Sciences Laboratory – Immunology, Environmental Microbiology, Toxicology, Pharmacology/Toxicology, Multiple Sclerosis, Medical Microbiology, Informatics Computer Laboratories.

**Kinesiology:** Bioimaging and Advanced Biomechanics, Biomechanics, Physical Activity and Health Research, Human Performance, Infant Neuromotor, Motor Control, Psychosocial, Visumotor.

**Occupational Therapy:** Assistive Technology and Universal Access (ATUA), Ergonomics in Occupations, Behavioral Health and Human Occupation

**CENTERS** (Research and Training)

Campus Ergonomics Services, Center for Forensic Science, Center for Urban Population Health, Rehabilitation Research Design and Disability (R2D2) Center, Center for Biomedical Data and Language Processing, Center for Aging and Translational Research.

Certificate Programs

**Baccalaureate**

Forensic Sciences (Death Investigation, Forensic Sciences, and Forensic Toxicology), Health Care Informatics, Nutrition, Older Adult Fitness, Strength & Conditioning, Study of Complementary and Alternative Medicine, Molecular Diagnostics, and Therapeutic Recreation

The College of Health Sciences is the largest school of its kind in the state of Wisconsin. It prepares students for careers in health care administration and informatics, diagnostic medicine, health and fitness, and the rehabilitation therapies. Our metropolitan location gives us ties to more than 100 local health care and recreation agencies, providing jobs, a
setting for practical experience to augment classroom instruction, and community service opportunities.

**Admission**

Freshmen are admitted to the preprofessional component in the College of Health Sciences with one of the following plans: pre-health sciences, pre-athletic training, pre-biomedical sciences, pre-communication sciences and disorders, pre-health care administration, pre-kinesiology, pre-nutritional sciences, and pre-occupational studies.

Admission policies of the College comply with the general regulations of UWM as presented earlier in this catalog. Upon admission to the College, the policies and procedures of the College of Health Sciences apply, even though the student may be enrolled in courses in another UWM school or college.

Enrollment in the preparatory program does not guarantee admission to the professional component or major, although nearly all eligible students over the past three years have been admitted. Admission criteria and timelines vary by major, and students are urged to consult regularly with their advisor for specific program application procedures.

**Criteria for Selecting Candidates.** Selection for progression into the professional component or major will be based on requirements met and other individual program factors. Each program in the College reserves the right to select its own candidates. More information and student applications are available from the Student Affairs Office.

**Certificate Completion.** Students wishing to complete any of the College of Health Sciences’ Baccalaureate Certificate Programs must meet with an academic advisor in the Student Services Office to declare their intention to complete the Certificate. Therapeutic Recreation Certificate students must submit a completed electronic Declaration of Intent form to Patricia Thomas at pthomas@uwm.edu or to the Student Affairs Office. Certificate enrollment is open to all UWM students.

**Academic Regulations**

For information regarding action on unsatisfactory grades or about honors for scholarship, see Academic Information and Honors for Scholarship.

Students in all College of Health Sciences majors whose cumulative or semester GPA in professional studies falls below 2.5 (except occupational studies and all kinesiology majors, who must have a semester GPA of 2.75) are required to consult with their program head and obtain the Dean’s permission to continue in the program.

**Academic Advising**

Academic advising and counseling for all preprofessional students is available in the Office of Student Affairs. Students who have been admitted to their major/professional program may be assigned a faculty advisor. Professional and faculty advisors are prepared to guide academic planning, provide career and job market information, and to assist students in making appropriate career choices within the health professions. Students are strongly encouraged to schedule one advising session per semester (preferably before the registration process).

Students who believe they have a disability that might affect their academic or job performance are encouraged to meet with an advisor early in their academic planning to discuss appropriate accommodations. Graduation clearance service is available for all students planning to register for the last two semesters. Call (414) 229-2758 for an appointment.

Detailed descriptions of the College of Health Sciences programs are available in the Office of Student Affairs or on our website: [www.chs.uwm.edu](http://www.chs.uwm.edu).

**Transfer Students.** The College of Health Sciences welcomes students from other academic areas on the UWM campus, and students transferring to UWM from other institutions. Students planning to transfer into any of the College’s majors should meet with an advisor in the Office of Student Affairs to plan their curriculum as early as possible. Most students find that a number of their courses transfer in meeting specific program and General Education Requirements (GER) needed for graduation. Students may meet with their advisor in person or by phone; quick
questions to advisors may be handled by email as well. Please call (414) 229-2758 for an appointment or information.

Degree Requirements

1. Satisfactory completion of 128 credits (120 credits for Kinesiology, 123 for Nutritional Sciences, and 130 credits for BioMedical Sciences-Biomedical Science, BioMedical Sciences-Cytotechnology, BioMedical Sciences-Diagnostic Medical Sonography, BioMedical Sciences-Medical Technology, BioMedical Sciences-Radiologic Technology), and all course and program requirements of student’s curriculum.

2. Satisfaction of all University-wide General Education Requirements (GER), including meeting English proficiency and mathematics requirement and completion of course distribution requirements. Second degree candidates are exempt from these requirements.

3. A cumulative 2.5 GPA in all credits earned at UWM.

4. Completion of the last 30 credits in residence at UWM. Second degree candidates must complete a minimum of 30 credits in residence beyond those required for previous degree.

5. A student who does not maintain continuous registration during the academic year and is readmitted to the College must meet the program and graduation requirements in effect at the time of reentry.

6. Any deviations from the curriculum must be approved in writing by the student’s program director or chairperson, and the Associate Dean for Academic Affairs. It is required that a student consult his/her advisor before requesting any program changes or waivers.

Special Opportunities/Requirements

Correspondence Courses. Correspondence courses may be taken only through the University of Wisconsin-Extension, with the permission of the Associate Dean for Academic Affairs. Students may not exceed 18 credits during one semester, including correspondence courses and work in residence, without permission. Only elective course requirements may be met through correspondence and Extension study.

Independent Study. Independent study is available in each department. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a faculty member. Activities may include reading, research, and special projects and must be approved, in advance, by the full-time faculty supervisor. Independent study is offered at the lower and upper levels. Students must have a cumulative GPA of 2.5 at UWM to pursue independent study. Upper division independent study requires junior status. For more information, see the catalog course listings or contact the department chairperson.

College Level Examination Program (CLEP). Credit for specific college courses may be earned through the College Level Examination Program (CLEP) of the College Entrance Examination Board. Students will be granted degree credit only for subject examinations, and if they score at the 50th percentile or higher on the National Sophomore norm. Credit for subject examinations may only be used to satisfy elective credits within the College of Health Sciences degree programs. A list of acceptable examinations may be found in the introductory section of this catalog under Academic Opportunities.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, or internships, students will be required to have a check of criminal conviction records prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly.

Health Insurance Documentation. Students may be required to carry health insurance during internship or fieldwork experiences. As a condition of placement in an internship program, students may also be required to have updated
vaccinations (e.g., MMR, Hbv). In addition, a physical examination and TB test may be required.

Course

College of Health Sciences

**100 New Student Seminar in Allied Health Professions. 1 cr. U.** An overview of the Allied Health Professions, the College of Health Sciences, and academic requirements. Strategies for academic success. Prereq: none.

Faculty and Staff

Administration

Chukuka S. Enwemeka, Prof., PhD, FACSM
Dean

Thomas Birk, PhD
Associate Dean, Academic & Student Affairs

Kate Brondino, MEd
Senior Administrative Program Specialist

Susan Cashin, PhD
Assistant Dean, Office of Student Services

Cheri Dzieken Chapman
Communications Coordinator

Ron Cisler, PhD
Director, Center for Urban Population Health

Gricelda Estrada, MEd
Academic Advisor

Mike Hauer, PhD
Assistant Dean Emeritus

Michelle Janowiak
Senior Student Services Coordinator

Debra Maglio
Senior Administrative Program Specialist, Business Office

Karen Miyoshi, MA
Administrative Program Manager II
Marion McDowell
Administrative Program Manager III Emerita

Bill Mueller
Academic Advisor

Agnes Northrup
Academic Advisor

Paula Rhyner, PhD
Associate Dean, Graduate Studies and Research

Roger O. Smith, PhD, OTR, FAOTA
Director, R2D2

Joel Spiess, MS
Academic Advisor

Susan Stalewski
Assistant Dean, Academic Affairs

BioMedical Sciences

Shahla Anders, Clinical Asst. Prof., MEd
Carroll University

Anthony Azenabor, Prof., PhD
University of Benin

Cynthia Brown, Clinical Assoc. Prof., MA
Central Michigan University

Lora deOliveira, Outreach Program Manager II, MBA, MPH
Marquette University, University of Minnesota

Bradley DePons, Laboratory Manager, MLS
University of Wisconsin-Milwaukee

Jennifer Doll, Asst. Prof., PhD
Washington University

Janis Eells, Prof., PhD
University of Iowa
Zenas George, Research Associate, PhD
University of Sussex, UK

Wail Hassan, Asst. Prof., PhD
University of Southern Mississippi

Randall Lambrecht, Prof. Emeritus, PhD

Elizabeth Liedhagner, PhD
Case Western Reserve University

Jeri-Annette Lyons, Assoc. Prof., PhD
Medical College of Wisconsin

Carol Mitchell, Asst. Prof., PhD
University of Missouri at Kansas City

Dean Nardelli, Asst. Prof., PhD
University of Wisconsin-Madison

John Ndon, Assoc. Prof., PhD
Meharry Medical College

Frederick W. Pairent, Prof. Emeritus, PhD

Susan Stalewski, Clinical Assoc. Prof., MT, ASCP, MBA
Keller Graduate School of Management

Kit Werner, Clinical Asst. Prof., PhD
University of Wisconsin-Madison

Communication Sciences and Disorders

Tricia Chirillo, Clinical Assoc. Prof., MS
University of Wisconsin-Madison

Marylou Gelfer, Assoc. Prof., PhD
University of Florida

John Heilmann, Asst. Prof., PhD
University of Wisconsin-Madison

Dawn Hennes, Clinical Assoc. Prof., MS
University of Wisconsin-Milwaukee
Sabine Heuer, Asst. Prof., PhD  
Ohio University

Shelley Lund, Assoc. Prof., PhD  
Pennsylvania State University

Paula Rhyner, Prof., PhD  
Kent State University

Betty Ritchie, Assoc. Prof. Emerita, PhD

Stacy Ryan, Assoc. Clinical Audiologist, PhD  
Pennsylvania College of Optometry

Carol Seery, Assoc. Prof., PhD
University of Washington

Sherri Sieff, Clinical Prof., PhD  
University of Southern California, Los Angeles

Kathleen Wangerin, Clinical Assoc. Prof., MA  
Northern Michigan University

Patricia Willis, Clinical Assoc. Prof., MST  
University of Wisconsin-Whitewater

Susan Yorio, Clinical Assoc. Prof., MS  
University of Nebraska

Heather Zingler, Assoc. Clinical Audiologist, AuD  
University of Wisconsin-Madison

Health Information and Administration

Ron Cisler, Prof., PhD  
University of Wisconsin-Milwaukee

Rene Gratz, Prof. Emerita, PhD

Rohit Kate, Asst. Prof., PhD  
University of Texas at Austin

Jake Luo, Asst. Prof., PhD  
Queen's University, Belfast, UK
John Lynch, Assoc. Prof. Emeritus, PhD
Mary K. Madsen, Prof. Emerita, PhD
Priya Nambisan, Asst. Prof., PhD
Rensselaer Polytechnic Institute
Neil Oldridge, Prof. Emeritus, PhD
Kathleen Olewinski, Clinical Asst. Prof., MS, RHIA, NHA, FACHE
Cardinal Stritch University
Timothy Patrick, Assoc. Prof., PhD
University of Missouri-Columbia
Rashmi Prasad, Asst. Prof., PhD
University of Pennsylvania
Hanh Trinh, Assoc. Prof., PhD
Medical College of Virginia
Min Wu, Assoc. Prof., PhD
University of North Carolina
Occupational Science and Technology
(Occupational Therapy, Therapeutic Recreation)
Kris Barnekow, Assoc. Prof., PhD
University of Wisconsin-Madison
Cynthia Clough, Clinical Asst. Prof., MS
University of Wisconsin-Milwaukee
Joyce Engel, Prof., PhD
University of Kansas
Arun Garg, Prof., PhD
University of Michigan
Carol Haertlein Sells, Prof., PhD
Marquette University
Mark Johnston, Prof., PhD
Claremont Graduate University
Jay Kapellusch, Asst. Prof., PhD
University of Wisconsin-Milwaukee

Phyllis King, Prof., PhD
University of Wisconsin-Milwaukee

Theodore King, Prof Emeritus., PhD

Nancy Nelson, Clinical Assoc. Prof., MBA
University of Wisconsin-Milwaukee

Heidi Plach, Clinical Asst. Prof., MS
University of Wisconsin-Milwaukee

Bhagwant Sindhu, Assoc. Prof., PhD
University of Florida

Brooke Slavens, Asst. Prof., PhD
Marquette University

Roger O. Smith, Prof., PhD
University of Wisconsin-Madison

Virginia Stoffel, Assoc. Prof., PhD
University of Wisconsin-Milwaukee

Patricia Thomas, Clinical Assoc. Prof., MPA
Long Island University

Ying-chih Wang, Asst. Prof., PhD
University of Florida

Kinesiology

Carlynn Alt, Clinical Assoc. Prof., PhD
Marquette University

Monna Arvinen-Barrow, Asst. Prof., PhD
University of Northampton, United Kingdom

Thomas Birk, Prof., PhD
University of Mississippi

Susan Cashin, Clinical Assoc. Prof., PhD
Southern Illinois University

Stephen Cobb, Assoc. Prof., PhD
Georgia State University

Ann Dietrich, Clinical Assoc. Prof., MS
University of Wisconsin-Milwaukee

Margaret Duncan, Prof. Emerita, PhD

Jennifer Earl, Assoc. Prof., PhD
The Pennsylvania State University

Kyle Ebersole, Assoc. Prof., PhD
University of Nebraska

Chukuka S. Enwemeka, Distinguished Prof., PhD, FACSM
New York University

Christy Greenleaf, Prof., PhD
University of North Carolina-Greensboro

William Gregory, Prof. Emeritus, PhD

Barbara Hart, Assoc. Prof. Emerita, PhD

Cynthia Hasbrook, Prof. Emerita, PhD

Wendy Huddleston, Assoc. Prof., PhD, PT, OCS
Medical College of Wisconsin

Mukta Joshi, Asst. Researcher, MS
Marquette University

Kevin Keenan, Assoc. Prof., PhD
University of Colorado

Lori Klos, Assoc. Prof., PhD
Cornell University

Sue Kundrat, Clinical Asst. Prof., MS
Iowa State University

Barbara Meyer, Prof., PhD
Michigan State University
Nora Miller, Assoc. Researcher, MS
University of Wisconsin-Milwaukee

Victoria Moerchen, Asst. Prof., PhD, PT
University of Wisconsin-Madison

John Ochsenwald, Clinical Asst. Prof., MS
University of Illinois, Champaign-Urbana

Kristian O'Connor, Assoc. Prof., PhD
University of Massachusetts

Tracy Oles-Fairchild, Clinical Asst. Prof., MA
University of Illinois

Renee Reckelberg, Athletic Trainer I
Eastern Michigan University

Erika Sander, Prof. Emerita, PhD

Ann Snyder, Prof. Emerita, PhD

Scott Strath, Prof., PhD
University of Tennessee

Ann Swartz, Assoc. Prof., PhD
University of Tennessee

Carrie Truebenbach, MS
University of Wisconsin-Milwaukee

Rhonda Verdegan, Clinical Assoc. Prof., PhD
Capella University

Jinsung Wang, Assoc. Prof., PhD
Arizona State University

Ryan Wilkinson, Clinical Asst. Prof., MS
Indiana University

Kathryn Zalewski, Asst. Prof., PhD, PT
University of Wisconsin-Milwaukee
College of Engineering & Applied Science

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- Courses: Engineering & Applied Science (EAS)
- Courses: Industrial Engineering (IND ENG)
- Courses: Materials (MATLENG)
- Courses: Mechanical Engineering
- Faculty and Staff

ENGINEERING AND APPLIED SCIENCE

Office of Student Services
Engineering and Mathematical Sciences Building, Room E386
DEGREE PROGRAMS

Bachelor of Science in Engineering in Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, Materials Engineering, Mechanical Engineering

Bachelor of Science in Computer Science

Master of Science in Computer Science

Bachelor of Science in Applied Mathematics and Computer Science (offered in collaboration with the College of Letters and Science)

Bachelor of Science/Master of Science Integrated Program


Doctor of Philosophy in Engineering in Civil Engineering, Computer Science, Electrical Engineering, Industrial Engineering, Materials Engineering, Mechanical Engineering

Ph.D. in Biomedical and Health Informatics (offered in collaboration with the Medical College of Wisconsin and UWM's College of Health Sciences, College of Nursing, School of Information Studies, and School of Business Administration)

Mission: To educate students to become creative problem solvers, conduct leading-edge research with global impacts, and act as a catalyst for improved economic development and quality of life in Wisconsin.

Vision: To become a globally prominent engineering education and research institution.

Our location in the major industrial center of the state of Wisconsin offers engineering and computer science students several advantages. Professional engineers and computer scientists from the industrial community share their expertise with the College in the classroom, research laboratory and on the College’s advisory committees. Our very successful co-op and internship programs give students work experience in their field of study before graduation. Many of the projects that students work on in the classroom are real projects brought to us by local companies. In short, Milwaukee area companies offer our students a real world laboratory to gain valuable insights and skills in their major field.

Accreditation. The College is accredited by the North Central Association of Colleges and Secondary Schools. In addition, the programs in civil engineering, electrical engineering, industrial engineering, materials engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET. The computer science program is accredited by the Computing Accreditation Commission of ABET. ABET, Inc., 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone: (410) 347-7700.

Requirements for Employment, Licensing, or Professional Organizations. Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Admission
NEW FRESHMEN

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and nonacademic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average and the result of the ACT or SAT. Well prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry and physics). The College also will consider nonacademic qualifications such as leadership skills, diversity in personal background, work experience, motivation and maturity.

The College offers three levels of placement for admitted new freshmen:

I. Admission Directly to Major
Admission directly to one of the College's seven majors is selective. Typically, freshman applicants who have completed a rigorous high school curriculum with a 3.5/4.0 grade point average and have earned an ACT composite score of at least 25 and an ACT math score of at least 28 will be admitted directly to major status.

II. Admission to Pre-Engineering or Pre-Computer Science
Typically, freshman applicants who have completed a rigorous high school curriculum with a 3.0/4.0 grade point average and have earned an ACT composite score of at least 23 and an ACT math score of at least 25 will be admitted to pre-engineering or pre-computer science.

III. Admission to the CEAS Bridge Program
A limited number of freshman applicants who do not meet the requirements for pre-engineering or pre-computer science will be considered for admission to the CEAS Bridge Program. The CEAS Bridge Program is an academic support program for first-year students. Students admitted to this program may be asked to participate in a summer program prior to their first semester.

A student's initial placement will be reconsidered after the completion of required course placement exams. Students who place into Math 105 or lower will be placed into the CEAS Bridge Program and may be asked to participate in a summer program.

TRANSFER STUDENTS

Transfer student admission is based on an overall assessment of both academic and nonacademic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The college also will consider nonacademic qualifications such as leadership skills, diversity in personal background, work experience, motivation and maturity.

To be considered for admission directly to the major, transfer applicants must have completed the equivalent of Math 232 (with at least a C grade), Chemistry 104 or 105 for engineering students or CompSci 201 for computer science students, and have a minimum of 24 transferable credits with a 3.00 cumulative GPA. Transfer applicants who do not meet the requirements for direct admission to the major will be considered for admission to pre-engineering or pre-computer science.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence: a) during the last 30 credits; b) during 45 of the last 60 credits; or c) during any 90 credits of the student's undergraduate career. At least 15 credits of advanced work in the major must be completed in residence at UWM.

ACCEPTANCE TO THE COMPUTER SCIENCE MAJOR

Pre-Computer Science students may apply for major status with their academic advisor at any time they believe they meet the requirements. Advancement to the major is a graduation requirement. The program may impose major status as a prerequisite for courses numbered 400 or above.
Advancement to major Requirements for Computer Science:

1. Completion of the following courses, each with a minimum grade specified by the department: Math 231, 232; Comp Sci 201, 252, 315, 317; and Elec Eng 354.
2. Minimum GPA in the above coursework as set by the department.

Initially the GPA requirement is set as 2.3.

The Dean may grant temporary major status for up to two semesters. Generally, this will only be done for transfer students or foreign exchange students with formal articulation agreements with the University of Wisconsin-Milwaukee, or the College of Engineering and Applied Science.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, 414-229-4667.

ADVANCEMENT TO MAJOR REQUIREMENTS FOR ENGINEERING:

For All Engineering Majors:

1. Complete Math 232 (or 222) with “C” or better grade.
2. Complete EAS 200 (Professional Seminar).

For Civil, Computer, Electrical, Industrial, and Materials Engineering Majors:

5. Obtain a minimum cumulative grade point average in all required math, science, and engineering courses as set by the major department. Currently, the cumulative grade point average has been set at:
   - 2.00 for Industrial and Materials Engineering
   - 2.33 for Civil and Computer Engineering
   - 2.50 for Electrical Engineering

For Mechanical Engineering Majors:

4. Complete Mech Eng 110, Chem 105 (or 102), Physics 209 and 214; and Comp Sci 201 (or 151).
5. Obtain a 2.33 GPA in all required math, science, and engineering courses.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, 414-229-4667.

PLACEMENT TESTING

Most new freshmen are required to take placement exams in English and mathematics. Engineering students also take a placement exam in chemistry, provided they have had previous coursework in chemistry. Students with previous college-level credits in chemistry, English, and math may not be required to take placement tests. Additional prerequisite coursework may be required as a result of these placement tests. Credit for prerequisite academic work may not count toward the degree program. Entering students are urged to take their placement exams when scheduled. All placement exams must be completed before beginning coursework in the subject area. Students who place into Math 105 or lower will be placed into the CEAS Bridge Program and may be asked to participate in a summer program.

Academic Advising
The College’s Office of Student Services, located on the third floor (Room E386) of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

**Diversity Programs Office**

The College of Engineering and Applied Science has developed a strategic plan that promotes a collaborative culture through communication and acceptance of students, faculty, and staff. The Office of Diversity is responsible for meeting this challenge through participating in the UW System and UWM's multicultural, diversity and community endeavors. The office also will review methods of increasing enrollment and of improving retention and graduation rates of all students, especially for students of color. The office will work closely with community initiatives, the Milwaukee Public Schools, and the Pre-College programs to attract and retain more minority students into engineering and computer science.

**Student Organizations**

In addition to the wide variety of activities that are available for all UWM students, CEAS students have the opportunity to participate in many organizations relating to their professional interests. Involvement in these organizations is recognized as a valuable component of their professional education.

**ORGANIZATIONS**

AAO - Aeronautics and Aerospace Organization  
AFS – American Foundrymen's Society  
ASCE – American Society of Civil Engineers  
ASM/TMS – Materials Engineering Society  
ASME – American Society of Mechanical Engineers  
IEEE-CS – Institute of Electrical and Electronic Engineers Computer Society  
IEEE – Institute of Electrical and Electronic Engineers  
IIE – Institute of Industrial Engineers  
ITE – Institute of Transportation Engineers  
NSBE – National Society of Black Engineers  
RC - Rocket Club  
ROV - Remotely Operated Vehicle Team  
SAE – Society of Automotive Engineers  
SHPE – Society of Hispanic Professional Engineers  
SME – Society of Manufacturing Engineers
Co-op and Internship Program

In today’s competitive job market, it takes more than a college degree to find employment upon graduation. The Career Services Office in the College provides the link between your education and the real world. This office is dedicated to helping all CEAS students secure engineering or computer science-related work experience before graduation, because related work experience in combination with good academics are the criteria most employers use to select new hires.

The College offers students two ways to gain that experience, internships and co-ops. The principal goals of the programs are to provide career orientation to students and enhance their professional development. All internships and co-ops are paid at a rate commensurate with educational background and experience. For more information contact the Career Services Office at (414) 229-6960 or ceascareers@uwm.edu.

CEAS Minors and Certificates

The College offers minors in computer science, electrical, industrial, materials, mechanical, and structural engineering and a certificate in web development, open to UWM undergraduate students. All of the CEAS minors and the certificate can be completed as part of the first bachelor’s degree at UWM or after completing a degree at UWM or another institution. For minor requirements, please see appropriate department.

Joint Programs With Other Campuses

Pre-engineering. Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

Dual Degree Programs: Qualified students may enroll in coordinated dual degree programs at Carroll University, UW-Green Bay, UW-La Crosse, and UW-Whitewater. Students in these programs will earn a bachelor’s degree in physics (Carroll University, UW-La Crosse or UW-Whitewater) or in environmental science (UW-Green Bay) and a bachelor of science in engineering from UWM in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

Joint Programs with Wisconsin Technical Colleges

Milwaukee Area Technical College. An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

Waukesha County Technical College: An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science, computer science program. For more information, contact the Office of Student Services at (414) 229-4667.
Academic Regulations

For information on University and College academic regulations such as course loads, grading, actions on unsatisfactory grades, overloads, etc., see Academic Information. A number of special College regulations are given below.

Degree Requirements. Students must maintain an average GPA of at least 2.0 on all work attempted at the University and in all courses offered by the College. Students majoring in computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year timeframe, the students will switch to the most current degree and major requirements. A new 10-year timeframe would then begin.

Dual Majors. Students wishing to major in more than one field can do so in two ways.

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.

2. Be admitted to the College as a second degree candidate (after earning a bachelor’s degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor’s degree.

Concurrent Registration at Other Institutions. CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

Student Academic Appeals. Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are given on the following pages. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current with the state of the art, students are encouraged to consult with their advisors to plan each semester’s list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula shown are applicable to new students entering CEAS in Fall 2014 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or
engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

Computer Engineering

Computer Science

Civil Engineering

Electrical Engineering

Industrial and Manufacturing Engineering

Materials Engineering

Mechanical Engineering

Courses

Civil Engineering and Mechanics (CIV ENG)

Computer Science (COMPSCI)
Electrical Engineering (ELECENG)

Engineering & Applied Science

Industrial & Systems Engineering

Materials (MATLENG)

Mechanical Engineering (MECHENG)

Faculty and Staff

Administration

Brett Peters
Dean

Ronald Perez
Associate Dean, Academic and Administrative Affairs

David Yu
Associate Dean for International and Graduate Programs

Al Ghorbanpoor
Associate Dean for Research

Student Services

Todd R. Johnson
Director, Student Services

Julianne Pickering
Co-op Program Coordinator

Tina Current
Senior Academic Advisor

Sharon Kaempfer
Senior Academic Advisor

Jennifer Klumpp
Senior Academic Advisor

Dolores Wallace
Retention Specialist
Graduate Programs and Research

Betty Warras
Graduate Program Specialist

Civil Engineering and Mechanics

Edward A. Beimborn, Prof. Emeritus, PhD, PE

Hector R. Bravo, Assoc. Prof., PhD
University of Iowa

Erik R. Christensen, Prof. Emeritus, PhD, PE

Rani El-Hajjar, Asst. Prof., PhD
University of Nebraska

Al Ghorbanpoor, Prof., PhD, PE
University of Maryland

Zhen He, Asst. Prof., PhD
Washington University

Sam Helwany, Prof., PhD, PE
University of Boulder, Colorado

Alan J. Horowitz, Prof., PhD, PE
University of California, Los Angeles

Kwang K. Lee, Prof. Emeritus, PhD, PE

Jin Li, Assoc. Prof., PhD
University of Cincinnati

Qian Liao, Assoc. Prof., PhD
Cornell University

Tarun R. Naik, Prof. Emeritus, PhD, PE

Adeeb Rahman, Assoc. Prof. PhD
University of Wisconsin-Madison

Konstantin Sobolev, Assoc. Prof., PhD
Research Institute of Concrete and Reinforced Concrete, Russia

Habib Tabatabai, Assoc. Prof., PhD, PE
University of Florida, Gainesville

Hani H. Titi, Assoc. Prof., PhD, PE
Louisiana State University

Jian Zhao, Assoc. Prof., PhD
University of Minnesota, Minneapolis
Electrical Engineering & Computer Science

Brian Armstrong, Prof., PhD
Stanford University

John T. Boyland, Prof., PhD
University of California, Berkeley

Christine T. Cheng, Assoc. Prof., PhD
Johns Hopkins University

George I. Davida, Prof. Emeritus, PhD

Adrian Dumitrescu, Assoc., Prof., PhD
Rutgers, The State University of New Jersey

Mukul Goyal, Assoc. Prof., PhD
Ohio State University

George Hanson, Prof., PhD, Chair
Michigan State University

S. Hossein Hosseini, Prof., PhD, Computer Science
University of Iowa

Yi Hu, Asst. Prof., PhD
University of Texas at Dallas

Charles E. Kahn, Jr., Adjunct Prof., MD
University of Illinois at Chicago

Nikolai A. Kouklin, Assoc. Prof., PhD
University of Nebraska-Lincoln

Robert J. Krueger, Prof. Emeritus, PhD

Chiu T. Law, Assoc. Prof., PhD
Purdue University

Leonard P. Levine, Prof. Emeritus, PhD

Arash Mafi, , Assoc. Prof., PhD
The University of Texas at Austin

Amol D. Mali, Assoc. Prof., PhD
Arizona State University

Susan McRoy, Prof., PhD
University of Toronto

Devendra K. Misra, Prof., PhD
Michigan State University

Ethan V. Munson, Chair, Prof., PhD
University of California, Berkeley
Adel Nasiri, Assoc. Prof., PhD
Illinois Institute of Technology

Ramin Pashaie, Asst. Prof., PhD
University of Pennsylvania

Mahsa Ranji, Asst. Prof., PhD
University of Pennsylvania

Ali Reza, Prof. Emeritus, PhD

Jayson Rock, Senior Lecturer, MS
University of Wisconsin-Milwaukee

Robert Sorenson, Senior Lecturer, MS
Marquette University

George R. Steber, Assoc. Prof. Emeritus, PhD

Ichiro Suzuki, Prof., PhD
Osaka University, Japan

Weizhong Wang, Assoc. Prof., PhD
University of Maryland, College Park

K. Vairavan, Prof. Emeritus, PhD

Guangwu Xu, Assoc. Prof., PhD
University at Buffalo, SUNY

David C. Yu, Prof., PhD, Assoc. Dean
University of Oklahoma

Zeyun Yu, Assoc. Prof., PhD
The Ohio State University

Jun Zhang, Prof., PhD
Rensselaer Polytechnic Institute

Tian Zhao, Assoc. Prof., PhD
Purdue University

Industrial Engineering

Daniel A. Beller, Senior Lecturer, MS
University of Wisconsin-Milwaukee

Naira Campbell-Kyureghyan, Asst. Prof., PhD
The Ohio State University

Tsong-How Chang, Assoc. Prof Emeritus, PhD

Jaejin Jang, Assoc. Prof, PhD
Purdue University
Edward W. Knoblock, Assoc. Prof. Emeritus, MS
Wilkistar Otieno, Asst. Prof., PhD
University of South Florida

Satish Nambisan, Prof., PhD
Syracuse University

Matthew Petering, Asst. Prof., PhD
University of Michigan

Umesh K. Saxena, Prof. Emeritus, PhD, PE

Hamid K. Seifoddini, Assoc. Prof., PhD
Oklahoma State University

Na Jin Seo, Asst. Prof., PhD
University of Michigan

Materials Engineering

Nidal Abu-Zahra, Assoc. Prof., PhD, Chair
Cleveland State University

George S. Baker, Prof. Emeritus, PhD

Benjamin Church, Asst. Prof., PhD
Georgia Institute of Technology

Changsoo Kim, Asst. Prof., PhD
Carnegie Mellon University

Hugo F. Lopez, Prof., PhD
Ohio State University

Joachim P. Neumann, Prof. Emeritus, PhD

Pradeep K. Rohatgi, Wisconsin Distinguished Prof., ScD
Massachusetts Institute of Technology

Dev Venugopalan, Assoc. Prof., PhD, Assoc. Vice Chancellor
McMasters University

Mechanical Engineering

Ryoichi S. Amano, Prof., PhD
University of California, Davis

Illya Avdeev, Asst. Prof., PhD
University of Pittsburgh

Robert T. Balmer, Prof. Emeritus, ScD

S. H. Chan, Prof. Emeritus, PhD
College of Letters and Science

- Web Home Page: [College of Letters and Science](#)
- DEGREE PROGRAMS
- Admission
- Advising
  - Declaration of Pre-Major
- Course of Study - Bachelor of Arts Degree
- Course of Study - Bachelor of Science Degree
- Course of Study - Second Baccalaureate Degree
- Course of Study - Additional Majors Program
- Course of Study - Minors
- Residence Requirements
- Grade Point Average
- Semester Course Load
- Academic Regulations
- Special Opportunities
  - Attainment Examinations
  - Correspondence and Extension Study
  - Credit for Demonstrated Equivalent Preparation
  - Evening Degree Opportunities
  - First-Year Seminar Program
  - Independent Study
  - Innovative Weather
  - Internship Opportunities
  - Overseas Study Opportunities
  - Undergraduate Research Opportunity (UROP)
  - Wisconsin Universities United Nations Summer Seminar
- Cultures and Communities Program
- Actuarial Science (see Mathematical Sciences)
- Africology
  - Courses: Africology (AFRICOL)
- Anthropology
  - Courses: Anthropology (ANTHRO)
- Arabic (see Foreign Languages and Literature)
- Archaeology (see Anthropology)
- Art History
  - Courses: Art History (ARTHIST)
- Astronomy (see Physics)
- Atmospheric Sciences (see Mathematical Sciences)
- Biochemistry (see Chemistry and Biochemistry)
- Biological Sciences
  - Courses: Biological Sciences (BIO SCI)
- Cell and Molecular Biology (See Biological Sciences)
  - Chemistry and Biochemistry
    - Courses: Chemistry (CHEM)
- Chinese (see Foreign Languages and Literature)
- Classics (see Foreign Languages and Literature)
- Communication
  - Courses: Communication (COMMUN)
- Comparative Literature (see French, Italian, and Comparative Literature)
- Economics
  - Courses: Economics (ECON)
- English
  - Courses: English (ENGLISH)
  - Courses: English as a Second Language (ESL)
- Foreign Languages and Literature
  - Courses: Arabic (ARABIC)
  - Courses: Chinese (CHINESE)
  - Courses: Classics (CLASSIC)
  - Courses: Foreign Languages and Literature (FLL)
  - Courses: German (GERMAN)
  - Courses: Greek (GREEK)
  - Courses: Hebrew Studies (HEBR ST)
  - Courses: Japanese (JAPAN)
  - Courses: Korean (KOREAN)
  - Courses: Latin (LATIN)
  - Courses: Polish (POLISH)
  - Courses: Russian (RUSSIAN)
  - Courses: Serbo-Croatian (SRB-CRO)
  - Courses: Ukrainian (UKRNIAN)
- French (see French, Italian, and Comparative Literature)
- French, Italian, and Comparative Literature
  - Courses: Comparative Literature (COMPLIT)
  - Courses: French (FRENCH)
  - Courses: Italian (ITALIAN)
- Geography
  - Courses: Geography (GEOG)
- Geosciences
  - Courses: Geosciences (GEO SCI)
- German (see Foreign Languages and Literature)
- Global Studies (see also Special Degree Programs)
- Greek (see Foreign Languages and Literature)
- Hebrew/Jewish Studies
  - Courses: Hebrew Studies
- History
  - Courses: History (HIST)
- Italian (see French, Italian, and Comparative Literature)
- Japanese (see Foreign Languages and Literature)
- Jewish Studies (see Hebrew/Jewish Studies)
  - Courses: Jewish Studies (JEWISH)
- Journalism, Advertising, and Media Studies
  - Courses: Journalism, Advertising, and Media Studies (JAMS)
- Korean (see Foreign Language and Literature)
- Latin (see Foreign Languages and Literature)
- Linguistics
  - Courses: Linguistics (LINGUIS)
- **Mathematical Sciences**
  - Courses: Atmospheric Sciences (ATM SCI)
  - Courses: Mathematical Sciences (MATH)
  - Courses: Mathematical Statistics (MTHSTAT)
- **Mathematical Statistics** (see Mathematical Sciences)
- Microbiology (see Biological Sciences)
- **Philosophy**
  - Courses: Philosophy (PHILOS)
- **Physics**
  - Courses: Astronomy (ASTRON)
  - Courses: Physics (PHYSICS)
- **Polish** (see Foreign Languages and Literature)
- **Political Science**
  - Courses: Political Science (POL SCI)
- Portuguese (see Spanish and Portuguese)
- **Psychology**
  - Courses: Psychology (PSYCH)
- **Public and Nonprofit Administration**
  - Courses: Nonprofit Administration (NONPROF)
  - Courses: Public Administration (PUB ADM)
- **Russian** (see Foreign Languages and Literature)
- **Slavic Languages**
- **Sociology**
  - Courses: Sociology (SOCIOL)
- **Spanish and Portuguese**
  - Courses: Portuguese (PORTUGS)
  - Courses: Spanish (SPANISH)
- **Translation and Interpreting**
  - Courses: Translation (TRNSLTN)
- **Urban Studies Programs**
  - Courses: Urban Studies (URB STD)
- **Women's Studies**
  - Courses: Women's Studies (WMNS)

- **Special Degree Programs**
  - Applied Mathematics and Computer Science
  - Course in Chemistry
  - Global Studies, Bachelor of Arts in

- **Interdepartmental Majors**
  - American Indian Studies (CIM)
  - Comparative Ethnic Studies (CIM)
  - Conservation and Environmental Science
  - Courses: Conservation and Environmental Science (CES)
  - Film Studies
  - Courses: Film Studies (FILMSTD)
  - International Studies
  - Courses: International Studies (INTLST)
  - Latin American, Caribbean, and U.S. Latino Studies
  - Religious Studies
  - Courses: Religious Studies (RELIG ST)
  - Urban Studies (see Urban Studies Programs)

- **Certificate Programs**
  - American Indian Studies
  - Courses: American Indian Studies (AIS)
Ancient Mediterranean Studies
Asian Studies
Business and Technical Communication
Celtic Studies
Courses: Celtic Studies (CELTIC)
Childhood and Adolescence Studies
Comparative Ethnic Studies
Courses: Ethnic Studies (ETHNIC)
Cultures and Communities
Death Investigation (see Forensic Sciences)
Digital Arts and Culture
Food Studies
Courses: Food Studies (FOOD)
Forensic Sciences
Forensic Toxicology (see Forensic Sciences)
French and Francophone Studies
Hmong Diaspora Studies
Courses: Hmong (HMONG)
Latin American and Caribbean Studies
Courses: Latin American and Caribbean Studies (LACS)
Latino Studies
Courses: Latino Studies (LATINO)
Lesbian, Gay, Bisexual, and Transgender Studies
Courses: Lesbian, Gay, Bisexual, and Transgender Studies (LGBT)
Middle Eastern and North African Studies
Peace Studies and Conflict Resolution
Courses: Peace Studies (PEACEST)
Premedical Studies
Russian and East European Studies
Scandinavian Studies
Courses: Scandinavian Studies (SCND ST)
TESOL (Teaching English to Speakers of Other Languages)

Urban Studies

Pre-Professional Programs
Pre-Forestry (Wildlife Management)
Pre-Dentistry
Pre-Law
Pre-Medicine
Pre-Pharmacy
Pre-Physician Assistant
Pre-Veterinary Medicine

Other Pre-Professional Health Study
Special Areas of Study
Courses: L&S Humanities (L&S HUM)
Courses: L&S Natural Sciences (L&S NS)
Courses: L&S Social Sciences (L&S SS)
Literature in Translation

LETTERS AND SCIENCE

Office of L&S Student Academic Services
Holton Hall 142
DEGREE PROGRAMS

Bachelor of Arts: Actuarial Science; Africology; American Indian Studies (CIM); Anthropology; Art History and Criticism; Biochemistry; Biological Sciences; Chemistry; Chinese (CIM); Classics; Committee Interdisciplinary; Communication; Comparative Literature; Conservation and Environmental Science; Economics; English; Film Studies; French; Geography; Geosciences; German; Global Studies; History; International Studies; Italian; Japanese (CIM); Jewish Studies; Journalism, Advertising, and Media Studies; Latin American, Caribbean, and U.S. Latino Studies; Linguistics; Mathematics; Microbiology; Philosophy; Physics; Political Science; Psychology; Religious Studies; Russian; Sociology; Spanish; Urban Studies (CIM); Women's Studies

Bachelor of Science: Applied Mathematics and Computer Science; Atmospheric Sciences; Biochemistry; Biological Sciences; Chemistry; Committee Interdisciplinary; Conservation and Environmental Science; Course in Chemistry; Geography; Geosciences (Geology-Geophysics Option only); Mathematics; Medical Science (for early admits to medical school only); Microbiology; Physics; Psychology

Master of Arts: Art History; Communication; Economics; English; Geography; History; Language, Literature, and Translation; Linguistics; Media Studies; Philosophy; Political Science; Sociology; Women's Studies

Master of Science: Anthropology; Biological Sciences; Chemistry; Geography; Geosciences; Mathematics; Nonprofit Management and Leadership; Physics; Psychology; Urban Studies

Master of Human Resources and Labor Relations

Master of Liberal Studies

Master of Public Administration

Master of Sustainable Peacebuilding

Doctor of Philosophy: Africology; Anthropology; Biological Sciences; Chemistry; Communication; Economics; English; Geography; Geosciences; History; Linguistics; Mathematics; Physics; Political Science; Psychology; Sociology; Urban Studies

Administration

Rodney Swain
Dean

Karen Brucks
Associate Dean, Natural Sciences

James Moyer
Associate Dean, Social Sciences

Jennifer Watson
Associate Dean, Humanities and Communication

Deanna Ding
Assistant Dean, College Relations, Marketing, Communication, PR
Connie Jo  
Assistant Dean, Curriculum, Governance, and Assessment

Patricia Kissinger  
Assistant Dean, Unit Business Representative

Cindy Piercy  
Interim Assistant Dean, Student Academic Services

Charles Schumacher  
Assistant Dean, Administrative Affairs and Personnel

Sherry Kulhanek  
Assistant to the Dean, Data Management

Diane Amour  
Coordinator, American Indian Student Services

Dao Vang  
Coordinator, Southeast Asian Student Academic Services

Susan Fields  
Coordinator, African American Student Academic Services

The College of Letters and Science is the largest academic unit of the University of Wisconsin-Milwaukee. Nearly every student at UWM completes a significant amount of course work in the College prior to graduation.

Study of the liberal arts and sciences in the College encourages students to develop critical and open minds and provides them with an intellectual foundation in the basic areas of knowledge. Students acquire a broad range of essential skills including the ability to communicate effectively, approach problems analytically, and adapt to new and changing situations.

Admission

Students who meet the standard University admission requirements are admissible to the College of Letters and Science. The same criteria for acceptance are applied to in-state and out-of-state students. See Admission section.

Advising

The College of Letters and Science provides academic advising for all students pursuing a degree in the College, undecided majors, and any students seeking information concerning majors, minors, and courses in the College. Letters and Science offers specialized advising services to any UWM student interested in the areas of pre-law, pre-medicine, pre-dentistry, pre-chiropractic medicine, pre-optometry, pre-podiatry, pre-physician assistant, pre-pharmacy, and pre-veterinary medicine. Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 9:00 a.m.-4:30 p.m. Evening advising is available during registration periods and at other times by appointment. The advising office is located on the first floor of Holton Hall, phone 229-4654. The office is located temporarily in MER 142, but should be returning to Holton in the fall.

When students declare a major, they are assigned an additional advisor within the major department. Prior to the assignment of a specific major advisor within the discipline, students may obtain major advising from the department’s undergraduate advising coordinator. All students should consult their academic advisors in Holton Hall and in their department prior to each registration period.

Declaration of Pre-major. Students who are not yet eligible to declare a major formally may declare a pre-major in an
academic discipline of interest to them. The declaration of a pre-major is encouraged as soon as a student finds s/he is interested in a particular area. This action permits the department to identify students to whom to send information concerning programs, awards, opportunities (e.g. internships), and other matters relating to the area of study. Students may declare a pre-major by completing a brief form available from the L&S Advising Office (HLT 142) or from the department office.

**Course of Study - Bachelor of Arts Degree**

*(For all new freshmen beginning Fall, 2008; students who entered prior to that date may follow requirements in the 2006-07 Undergraduate Catalog.)*

In addition to the requirements listed below, L&S students must complete the University-wide GERs. (http://www4.uwm.edu/current_students/ger_information/index.cfm)

**I. ENGLISH WRITING REQUIREMENT**

Students must satisfy the English Writing Requirement by completing English 102 with a grade of C or higher or by placing beyond English 102 on the English Placement Test (EPT).

**II. MATHEMATICS AND FORMAL REASONING REQUIREMENT**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

A. achieve a math placement code of at least 30 or earn at least 3 credits with a grade of C or higher in Math 102, 103, 105, 108, 175, or an equivalent course;

B. complete one course (at least 3 credits) at the 200 level or above chosen from courses in mathematics, Philos 211 (Elementary Logic), or Letters and Science statistics courses. For a list of approved statistics courses, see the College of Letters and Science website: [http://www4.uwm.edu/letsci/requirements/2006/statistics.cfm](http://www4.uwm.edu/letsci/requirements/2006/statistics.cfm).

**III. LANGUAGE REQUIREMENT**

Students may satisfy the language requirement in one of two ways: (1) successful completion of the fourth semester of college work or equivalent in one language other than English or (2) successful completion of the third semester of college work or equivalent in one language other than English PLUS the second semester of college work or equivalent in another language other than English. Contact your academic advisor or the L&S Advising Office for an explanation of equivalent work.

**IV. INTERNATIONAL REQUIREMENT**

Students must satisfy the International Requirement by 1) completing three courses (at least 9 credits) in a single foreign language (not including literature-in-translation) at the 200 level and above, or 2) completing three non-language courses (at least 9 credits) with international content chosen from at least two curricular areas, or 3) completing 9 credits in combination from options 1 and 2. For a list of approved courses, see the College of Letters and Science website: [http://www4.uwm.edu/letsci/requirements/2006/international.cfm](http://www4.uwm.edu/letsci/requirements/2006/international.cfm).

**V. BREADTH REQUIREMENT**

**L&S Breadth Areas**

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>12</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>12</td>
</tr>
<tr>
<td>Natural Sciences (must include at least one laboratory or field course)</td>
<td>12</td>
</tr>
</tbody>
</table>
No more than 6 credits from a single curricular area may be used to satisfy any single area of the Breadth Requirement. For a list of approved courses, see the College of Letters and Science website: http://www4.uwm.edu/letsci/requirements/2006/upload/breadth.pdf.

VI. THE MAJOR

After completing 15 credits and before 75 credits have been earned, students must declare a major by contacting the appropriate academic department or program. Failure to declare the major before 75 credits have been earned may result in a delay of graduation. Some departments or programs specify course and/or GPA requirements that students must satisfy prior to declaring the major.

The College requires that students attain at least a 2.5 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

Research Requirement. Within their majors, students must complete a research experience approved by the L&S Faculty.

To complete a major, students must satisfy all the requirements of the major as stated in the department or program entry later in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog from the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

MAJOR OPTIONS

Students may declare a departmental major, an interdepartmental major, or a committee interdisciplinary major.

Departmental Major. A departmental major ordinarily offers one of three orientations: 1) general concentration in the discipline, 2) preparation for graduate work in the discipline, or 3) pre-professional training. Students should select one of these orientations in consultation with their major advisor.

Interdepartmental Major. For the requirements of the seven interdepartmental majors offered, see the Interdepartmental Majors section later in this catalog.

Committee Interdisciplinary Major. The Committee Interdisciplinary Major is designed to meet the individual needs of the students. Upon request by a student, a committee of three or more individuals from two or more academic units may develop a major based on that student’s abilities and needs. All committee majors must be approved by the major academic units involved.

The committee interdisciplinary major requires a minimum of 30 credits, of which at least 15 must be in upper-division (numbered 300 or above) Letters and Science courses taken in residence at UWM. The CIM must include course work in at least two L & S academic units. Most units outside the College also may be selected as part of the major. However, at least 18 credits in the major must be earned in Letters and Science courses. Non-L&S courses selected as part of a CIM will not count toward the 90 L&S credits required for the degree, but they will satisfy part of the 30 elective credits available to L&S students.

To propose a committee interdisciplinary major, students should obtain a “Declaration of Committee Interdisciplinary Major” form from the Office of Student Academic Services. They must prepare a written statement defining the goals of their proposed major, and then identify three individuals from two or more academic units who are willing to function as the major oversight committee. One individual may be an academic staff member, but at least two must be faculty members. Academic staff members of CIM committees must be approved by the CIM committee chair and the Associate Dean for L&S Student Academic Service. At least two committee members must be from L&S. A member of the L&S faculty serves as committee chair and major advisor. The student and committee members together identify
the courses that will be required for the major. The declaration form is completed and signed by the committee chair and then sent for approval to the chair/director of every academic unit in which courses in the major will be taken.

Students present the completed declaration form to the Office of Student Academic Services at any time between the 15th and 75th credits. An academic advisor, in consultation with the interim assistant dean for Student Academic Services, will either approve or deny the proposal. Should the proposal be denied, the student and the committee chair will receive a written explanation of the denial. Students may appeal a denial to the L&S Academic Policies and Curriculum Committee. The proposal also may be reworked and resubmitted.

**Second Major.** With the approval of the interim assistant dean for Student Academic Services, students may elect a second major.

**VII. THE MINOR**

The completion of a minor is optional. The College requires that students attain at least a 2.5 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work. Individual departments may require higher GPAs for graduation. Students must complete in residence at least 9 credits of upper-division (numbered 300 or above) courses in the minor.

**VIII. CREDIT REQUIREMENTS AND LIMITATIONS**

To complete the B.A., 120 degree credits are required, including at least 36 credits in upper-division (numbered 300 or above) courses offered by the College of Letters and Science. At least 90 credits must be completed in L&S courses, allowing students to take as electives up to 30 credits in courses offered by other UWM academic units. There is no limit to the number of credits that may be taken in one department. No more than 6 credits in any single course outside the College may be counted toward the B.A. (or B.S.) degree. A maximum of 6 credits in military science courses may be counted toward the degree as non-L&S electives. No more than 6 credits of field experience taken outside the College and no more than 6 credits in sport and recreation courses may be counted toward the degree. No “life experience” credits may be counted toward the degree.

**Course of Study-Bachelor of Science Degree**

*(For all new freshmen beginning Fall, 2008; students who entered prior to that date may follow requirements in the 2006-07 Undergraduate Catalog.)*

In addition to the requirements listed below, L&S students must complete the University-wide GERs (http://www4.uwm.edu/edu/current_students/ger_information/index.cfm)

Students seeking the BS degree are urged to begin their math and science studies in the earliest possible semester to avoid delays in graduation.

**I. ENGLISH WRITING REQUIREMENT**

See [Bachelor of Arts Degree](http://www4.uwm.edu/edu/current_students/bachelor_degree/index.cfm).

**II. MATHEMATICS AND FORMAL REASONING REQUIREMENT**

All candidates for the Bachelor of Science degree must complete Math 211, 221, 226, 227, 228, or 231 and one additional course at the 200 level or above chosen from courses in mathematics, Philos 212 (Modern Deductive Logic), or Letters and Science statistics courses. For a list of approved statistics courses, see the College of Letters and Science website: [http://www4.uwm.edu/letsci/requirements/2006/statistics.cfm](http://www4.uwm.edu/letsci/requirements/2006/statistics.cfm).

**III. LANGUAGE REQUIREMENT**

Two courses (minimum 6 credits) in a language (including American Sign Language) other than English at the 100 level
or above are required. This requirement is satisfied by two years of a single language (including American Sign Language) other than English taken in high school.

IV. INTERNATIONAL REQUIREMENT

See Bachelor of Arts Degree.

V. BREADTH REQUIREMENT

L&S Breadth Areas

- Humanities: 12
- Social Sciences: 12
- Natural Sciences (must include laboratory courses from three different curricular areas): 12

No more than 6 credits from a single curricular area may be used to satisfy any single area of the Breadth Requirement. For a list of approved courses, see the College of Letters and Science website: http://www4.uwm.edu/letsci/requirements/2006/upload/breadth.pdf.

VI. THE MAJOR

Requirements are the same as for the Bachelor of Arts degree, with the exception that students must declare a science major. The science major may be one of three kinds: a departmental major from among atmospheric sciences, biological sciences, biochemistry, chemistry, geography, geosciences (geology-geophysics option only), mathematical sciences, microbiology, physics and psychology; the conservation and environmental sciences major; or a committee interdisciplinary major. (See Bachelor of Arts Degree for the last option.) The courses for the committee interdisciplinary major must be selected from the departments of Biological Sciences, Chemistry, Geography (physical), Geosciences, Mathematical Sciences, Physics, psychology (natural sciences), or from other courses approved to meet the natural science requirement (http://www4.uwm.edu/letsci/requirements/2006/natsci.cfm).

Second Major. With the approval of the interim assistant dean for Student Academic Services, students may elect a second major. The second major need not be selected from the natural sciences.

VII. THE MINOR

The completion of a minor is optional. Requirements are the same as for the Bachelor of Arts degree. The minor need not be selected from the natural sciences.

VIII. CREDIT REQUIREMENTS

To complete the B.S., 120 degree credits are required, including at least 36 credits in upper-division courses (numbered 300 or above) offered by the College of Letters and Science. For the Bachelor of Science degree, at least 30 of these 36 credits must be from natural science curricular areas or other courses approved as advanced natural sciences (http://www4.uwm.edu/letsci/requirements/2006/natsci.cfm).

See Bachelor of Arts Degree for additional credit requirements and limitations.

Eligibility for Prior Degree Requirements. Students enrolled at UWM prior to September, 2008 and transfer students who began their studies prior to September, 2008 may meet the requirements listed above or may satisfy the requirements for the Bachelor of Arts/Science degree programs outlined in any Undergraduate Bulletin or Catalog between 1998-99 and 2006-07.

Course of Study - Second Baccalaureate Degree
Candidates for a second baccalaureate degree must satisfy all current requirements for an undergraduate degree in the College of Letters and Science. Transfer work may be used for these requirements. In addition, students must complete at least 30 credits in residence at UWM after the date on which the first degree is awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed in residence. Of these 30 credits, at least 24 must be in courses in the College of Letters and Science. At least 20 of these credits must be in upper-division courses. Students must satisfy current requirements for a major. Students who have been awarded a Bachelor of Arts by the College of Letters and Science are not eligible for a second BA degree from L&S. Those who have earned a Bachelor of Science in L&S are not eligible for a second L&S BS degree.

Course of Study - Additional Majors Program

All College of Letters and Science departments participate in the University’s Additional Majors Program. This program serves students who have completed a degree, either at UWM or elsewhere, as well as those currently enrolled in another school/college at UWM who wish to complete an additional major in L&S. Students who opt for an additional major must complete only the major requirements; they are not required to complete an entire second degree. A regular departmental major, an interdepartmental major, or a committee interdisciplinary major may be selected.

All credit and grade point average requirements currently in effect for the selected major are enforced. This means that students must complete a minimum of 15 advanced credits (numbered 300 or above) in residence at UWM, and they must complete the version of the major in effect at the time of declaration. Students participating in the program must provide transcripts of all prior non-UWM work. Those with a prior degree are admitted with senior standing. Completion of the major is certified by the major department and recorded on an official UWM transcript.

Residence Requirements

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence (a) during the last 30 credits, (b) during 45 of the last 60 credits, or (c) during any 90 credits of a student’s undergraduate career.

Students who transfer to UWM from a UW two-year college, Milwaukee Area Technical College, Madison College, or Nicolet Technical College may transfer up to 72 credits taken at a two-year school.

Students who transfer to UWM from a junior college outside Wisconsin must earn the final 48 credits here or in another bachelor’s-degree-granting college or university in accord with the requirements stated above.

At least 15 credits of advanced work in the major, and 9 credits of advanced work in the minor (if applicable), must be completed in residence at UWM. Departures from this rule due to extraordinary circumstances require a recommendation, including evidence of equivalent work completed elsewhere, from the major or minor department to the Office of Student Academic Services.

Credits earned through credit-by-examination, retroactive credit in foreign languages, and the College Level Examination Program do not count toward residency, but they do not interrupt residency.

Grade Point Average

To be eligible for a bachelor’s degree, students must attain a cumulative GPA of 2.0 on all credits that count toward a degree in the College, including any transfer work. In addition, students must earn a cumulative 2.0 GPA on all UWM credits that count toward the degree.

Semester Course Load

Students in Letters and Science may carry a maximum of 18 credits in a regular semester. In extraordinary circumstances, an overload may be granted to a student with a high GPA who has no outstanding incompletes. Students should contact the College's advising office for instructions on requesting an overload. Additional fees are assessed for
Academic Regulations

For information on actions on unsatisfactory grades and honors for scholarship, see Academic Information.

Special Opportunities

ATTAINMENT EXAMINATIONS

Students may take an attainment examination in some departments to demonstrate mastery of the subject matter of courses that are prerequisite for advanced courses or are required for graduation. Although passing such an examination does not grant credits toward graduation, it enables students to move more quickly to advanced work in a subject area.

CORRESPONDENCE AND EXTENSION STUDY

With the permission of the interim assistant dean for Student Academic Services, students may take correspondence courses through the University of Wisconsin-Extension for credit while enrolled in the College of Letters and Science. The total number of credits per semester may not exceed 18, including correspondence courses and work in residence.

CREDIT FOR DEMONSTRATED EQUIVALENT PREPARATION

In special cases, a department may grant credits toward graduation for knowledge or abilities attained through previous work, i.e., course work or other systematic study as determined by the department. Although the College of Letters and Science places no limit on the number of credits that may be obtained in this way, departments, if they choose to do so, may set limits on the number of credits they will grant.

Departments other than foreign language departments may grant a student credits toward graduation for a University course in which s/he requests and passes a special University examination. An examination for credit must be based on work equivalent to a course given at UWM, and the credits granted will be for the corresponding course. Evidence of work justifying an examination for credit must be presented to the department. Permission for such examinations must be secured in advance from the Dean of the College upon recommendation of the department chair. Examinations for credit will be taken at a time specified by the department. In general, a student may not take such an examination if any previous enrollment in the target course appears on the student's record, whether or not the course was completed.

Foreign language departments may allow students to receive credit for some prerequisite language courses at the 100 and 200 level upon completion of specified higher-level "entry" courses. A student who skips a course or courses in the 100-200 language sequence after having taken a lower-level course may earn credits for demonstrated equivalent preparation ("retro" credits) in the skipped course(s) if s/he earns a grade of B or better in the higher-level course. As a general policy, a grade of B or above is required, but individual departments may set a higher grade requirement. Only the grade in the completed course is computed into the grade point average. A student who earns below the required grade in this entry course becomes, thereafter, ineligible for "retro" credits in the language involved.

The number of credits that can be earned in this way is limited to a maximum of 16 in any one language. Credits granted for prerequisite courses will be equal to the credit value of the prerequisite course(s) or a maximum of 4 credits for each prerequisite course, whichever is the smaller number. Students may not be granted "retro" credits for courses at the 300 level and above, except where the fourth-semester course in a regular language sequence in numbered 300 or above.

In the foreign languages, credit for prerequisite courses ("retro credits") also may be granted to transfer students under the following circumstances:

- Retro credits granted by another institution will be accepted at UWM if they were granted based on a course that generates retro credits at UWM and if the student has earned the grade that is required at UWM.
- A transfer student coming from an institution that does not grant retro credits but who took a foreign language course
that transfers as a qualifying course at UWM may apply for retro credits if the student satisfies UWM standards for receiving retro credits.

In both cases, the number of retro credits awarded will be limited to the number of credits students at UWM are granted for each prerequisite course.

Students who want more information should contact the chair of the appropriate language department.

EVENING DEGREE OPPORTUNITIES

The College of Letters and Science seeks to accommodate the needs and interests of students who plan to complete degree programs during the evening hours. At present, six degree programs offered by departments in the College can be completed through evening course work. With the approval of the major department and the interim assistant dean for Student Academic Services, modifications often can be made in degree programs that cannot be completed in this manner. Questions concerning the availability of courses and specific degree programs during late hours should be directed either to Andrew Cuneo, 229-2787, or to the appropriate department.

FIRST-YEAR SEMINAR PROGRAM

The First-Year Seminar Program affords freshmen the opportunity to participate in a small learning community during their first year at UWM, helping to ease the transition to college. The Program offers a range of seminars to students of all ability levels.

Limited to just 20 first-year students, each first-year seminar provides a unique opportunity for students to get to know their professors and fellow students. In this small seminar setting, the professor serves as a mentor, coaching and helping students to achieve success in their first year. First-year seminars emphasize the development of collaboration, teamwork, written and oral communication skills, creative and analytical thinking, and university literacy.

Seminars are offered in a wide variety of interest areas. Course titles in recent semesters have included What is Randomness; Urban Legends of the Supernatural; Aspects of Hell; and What’s So Funny? Most first-year seminars are offered for three credits and can be applied to degree requirements. See the Schedule of Classes for a list of first-year seminars taught in the current semester.

For more information, visit the First-Year Seminar website at http://www4.uwm.edu/letsci/freshmanseminars or call Associate Dean Jennifer Watson at 414-229-4924.

INDEPENDENT STUDY

Certain departments allow qualified students to register for independent study. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a member of the Letters and Science faculty or instructional academic staff. The activities may include reading, research, or special projects. In most departments, independent study is offered at the lower and upper levels, although both levels are not available in all departments.

Students register in course numbers 199 or 699 in an appropriate department (290, 697, 698 in Bio Sci or 399 in Sociol) after preparing, with the approval of the supervising instructor, a statement (study proposal) describing the plan of study. The study proposal must be approved by the department chair and forwarded to the Office of Student Academic Services.

In order to apply for lower-level independent study, students must have a 2.5 GPA or above on all credits attempted at UWM. The upper-level independent study course carries a prerequisite of junior standing and a 2.5 UWM GPA. Departments may opt to set higher GPA prerequisites. To ascertain class standing and cumulative GPA for new transfer, special, and summer-only students, a transcript of all previous college work must be submitted. Some independent study courses may have departmental prerequisites in addition to these college-wide prerequisites. Departments do not have the authority to waive college-wide prerequisites. See the course listings later in this catalog to determine if a particular
department offers independent study.

INNOVATIVE WEATHER

UWM’s Innovative Weather is a 25/7 weather operation that trains the next generation of meteorologists while providing weather-related services to the community and business partners throughout southeastern Wisconsin and the Midwest. Led by Dr. Paul Roebber and Mike Westendorf, Innovative Weather gives students hands-on experience in operational meteorology and professional job skills. It also provides community and business partners with reliable risk assessment forecasts and services, and it provides Milwaukee radio listeners with accurate and in-depth weather forecasts on 89.7 WUWM.

Innovative Weather hires UWM students pursuing degrees in atmospheric science or related fields. Employees develop skills in short- and long-range forecasting, broadcasting, and client communication as they progress from intern to meteorologist. The rigorous 24/7 schedule prepares students for the demands of a career in meteorology. Students also receive excellent training to acquire the soft skills that so many companies are seeking.

Email: mike@innovativeweather.com

INTERNSHIP OPPORTUNITIES

The Washington Center Internship. The College of Letters and Science participates in a program that arranges internships in Washington, D.C. Students earn 15 UWM credits in the fall or spring semester and 12 credits during the summer semester. The internships are full-time, nonpaid positions. For more information on this opportunity, contact Lenore Fuller, Office of Student Academic Services, (414) 229-5899.

International Internships. A limited number of overseas internship opportunities are available to students accepted to some of the overseas study programs sponsored by the College. For more information on internships abroad, contact the Center for International Education, (414) 229-5182.

Local and Regional Internships. Internships are available in a variety of public and private agencies in the Milwaukee metropolitan area. For more information on internship opportunities, contact Cindy Piercy, Office of Student Academic Services, Holton 118, (414) 229-5872.

OVERSEAS STUDY OPPORTUNITIES

The College of Letters and Science, through the Center for International Education, offers a wide range of opportunities for students to study overseas through a variety of exchange and study abroad programs. Foreign language proficiency is required for some of the programs but is not required for all. Students accepted for participation earn UWM credits and make progress in their major and/or toward their degree at UWM. There also are numerous faculty-led, short-term UWinteriM or summer programs in which students may earn three to six credits. Program locations change from year to year and have included Taiwan, Cuba, Ghana, Italy, Peru, India, United Kingdom, China, Brazil, Costa Rica, and France. For certain programs, students may apply for national, regional, or program-specific scholarships.

The programs listed below are sponsored by the College of Letters and Science through the Center for International Education. For additional program information, see the International Study entry in the Academic Opportunities section of this catalog.

Argentina: CEA Buenos Aires Study Abroad. Partnering with the University of Belgrano, this program is offered during the fall and spring semesters. Students can study Spanish language, Argentine immersion, international business, Latin American studies, liberal arts, or social sciences. Some classes are taught in English.

Australia and New Zealand Study Abroad. Students may earn UWM credit and receive a small program fee reduction by studying in a wide variety of disciplines at one of seven Australian or two New Zealand universities sponsored by UWM through our affiliation with GlobalLinks. Students can study during the fall, spring, or academic year.
Brazil: **Pontificia Universidade Católica Exchange.** Located in Rio de Janeiro, this fall or spring semester program offers students the opportunity to take classes in English while also learning Portuguese. The courses taught in English have a content based on aspects of Brazil and Latin America, such as culture, literature, business, design, civilization, and history, among others.

Chile: **Pontificia Universidad Católica Study Abroad.** Located in Santiago, Chile, this fall, spring, or academic year program offers participants the opportunity to study a wide variety of courses from many disciplines, including liberal arts and Spanish language courses, at the prestigious Catholic University.

China: **China Studies Institute Study Abroad.** Study in Beijing during the summer, fall, spring, or academic year at this Chinese language and culture unit within Peking University. Non-language courses are taught in English in a broad range of disciplines. Field studies and internships are available.

Egypt: **American University in Cairo Study Abroad.** Study in this American-style university in the city center of Cairo. This program is for students of all majors with an interest in Arabic studies and languages.

Egypt: **AMIDEAST Study Abroad in Cairo.** AMIDEAST partners with the Arab Academy for this program. Students can choose from a Middle East Studies track and an Egyptology track. In both, students take Arabic language and relevant subject-area courses. Internships are available.

England: **London Study Program.** Located in central London, this spring semester faculty-led study abroad program offers a liberal arts curriculum with guest lecturers, regional excursions, internships, and cultural events.

England: **British Universities Exchange Programs.** Selected students enroll in fall, spring, or academic year courses at the University of Birmingham, University of Sunderland, or University of Kent at Canterbury. We also have an exchange with the University of Sheffield that runs during the spring semester or academic year. Students may take a wide variety of courses in many different disciplines.

England: **Herstmonceux Castle Study Abroad.** Located in East Sussex about one hour south of London, students can study liberal arts and business for a fall, spring, or summer term in this renovated 15th-century castle. Scholarships, regional excursions, and social events are highlights of this program.

France: **Eurocentres Study Abroad.** This summer, winterim, fall or spring semester program gives students the opportunity to study intensive French. It is open to students of all levels and includes cultural excursions and field-trips to encourage cultural immersion. Students have the opportunity to study in Paris, Amboise or La Rochelle.

France: **Paris Semester Study Abroad.** This is a spring semester, faculty-led program with course offerings in French language and literature, art, history, geography, and politics at the Institut de Langue et de Culture Françaises of the Institut Catholique in Paris as well as a credit internship teaching in French schools and the opportunity to take a business class at a French business school. The program includes tours and visits to places of historical and cultural interest.

France: **Sciences Politiques Exchange.** This fall, spring, or academic year exchange is for advanced French speakers with strong social science backgrounds (political science, international studies, history), which is offered at one of the most prestigious higher education institutions in France. Many French presidents and diplomats have graduated from this school, located in Paris. Other campuses include Dijon, Le Havre, Menton, Nancy, Poitiers, and Reims.

France: **Novancia Business Exchange.** A fall, spring, or academic year offering at Novancia in Paris, endorsed by the Lubar School of Business at UWM, this exchange program for undergraduate and graduate students will be of special interest to business, communication, or mass communication students. Courses are taught in English. A wider variety of courses are available for advanced French speakers.

France: **MICEFA Exchange.** A fall, spring, or academic year program coordinated by the Mission interuniversitaire...
de coordination des échanges franco-américaines (MICEFA) in Paris, this immersion program is for advanced French speakers who are placed at one of ten different Parisian universities for study of a wide variety of subjects.

**France: ESA Exchange.** Enroll in Architecture and Urban Planning course offerings in French at the *Ecole Speciale d’Architecture (ESA)* in Paris during the fall or spring semester.

**France: ESSEC International Business School Exchange.** Students can study during the fall or spring semester at the campus located in Cergy-Pontoise, just outside of Paris. Classes include business administration, business management, economics, human resources, and intensive French language. Several courses are taught in English.

**Germany: Eurocentres Berlin Study Abroad.** This summer, UWinteriM, fall, or spring program gives students the opportunity to study intensive German. It is open to students of all levels and includes cultural excursions and field-trips to encourage cultural immersion.

**Germany: Giessen Exchange.** This is a spring semester or academic year program in which qualified UWM students enroll at *Justus Liebig Universität* in Giessen, Germany. Participation in the exchange fulfills a large portion of credits needed for a German Studies Certificate. Several scholarships are available for this program.

**Germany: Hessen-Wisconsin Exchange.** This is a unique program, managed by UWM, for students of the University of Wisconsin System. The exchange can be for a semester, year, or summer session at any one of the 13 participating Hessian universities located in Darmstadt, Frankfurt, Fulda, Giessen, Kassel, Marburg, Offenbach, and Wiesbaden. Immersion courses, language learning at all levels, and some courses in English are offered.

**Germany: Europa-Universität Viadrina Exchange.** This is a fall, spring, or academic year program located on the border between Germany and Poland. Students can pursue law, economics, and cultural studies in German, Polish, or English languages.

**Germany: Otto-Friedrich-Universität Bamberg Exchange.** This academic year-long program is located in Bamberg, a charming town located in central Germany that was designated as a UNESCO World Heritage City. Students may take courses in German, English, or a combination of both. Bamberg offers a wide array of subject options such as humanities, social sciences, business, and applied computer science and information systems.

**Northern Ireland: Colmelle Study Abroad.** This unique spring semester study program starts in Dublin and moves to Glencolmcille (both in the Irish Republic) for Irish language and culture training; then the program continues in Derry, Northern Ireland (United Kingdom) for studies in peace and conflict resolution at the Magee College of the University of Ulster.

**Israel: Rothberg International School - Hebrew University of Jerusalem Study Abroad Program.** Students have the opportunity to study in English at the Hebrew University of Jerusalem in a wide variety of subjects, such as religious, Israeli, and Middle Eastern studies; business; psychology; environmental studies; dance; and music. Students also develop proficiency in Hebrew and participate in a comprehensive program of extracurricular activities, including tours in Jerusalem and throughout the country.

**Israel: Ben-Gurion University of the Negev-Ginsburg Ingerman Overseas Student Program.** Students will have the opportunity to study Hebrew language in addition to choosing from a variety of courses taught in English that are designed to enhance and connect their experience in Israel. Students will be encouraged to participate in volunteer service to deepen their knowledge of and exposure to Israel and its people. This program is offered during the fall, spring, and academic year.

**Italy: Eurocentres Florence Study Abroad.** This summer, UWinteriM, fall or spring semester program gives students the opportunity to study intensive Italian. It is open to students of all levels and includes cultural excursions and field-trips to encourage cultural immersion.

**Italy: Santa Reparata International School of Art Study Abroad.** Santa Reparata International School of Art
(SRISA) provides accredited academic-year and semester studio art programs, short workshops, and summer classes of the highest caliber. SRISA believes that a balanced curriculum of studio art courses and academic courses provides the most comprehensive experience for students who have chosen Florence as their place of study. Course offerings in liberal arts and culture complement the studio disciplines to provide students with an intellectual framework and historical context for their creative work. With the exception of Italian, all courses are taught in English.

Japan: Chiba University Exchange. This exchange is located in Chiba, the prefecture adjacent to Tokyo and the sister-state of Wisconsin. Students take courses in Japanese language and culture. For those proficient in Japanese, a wide variety of courses in many different disciplines are offered.

Japan Eurocentres in Kanazawa Study Abroad. This summer, UWinteriM, fall, or spring semester program gives students the opportunity to study intensive Japanese. It is open to students of all levels and includes cultural excursions and field-trips to encourage cultural immersion.

Japan: Nanzan University Exchange. This exchange in Nagoya, Japan is ideal for learners of Japanese at the intermediate levels. The program offers intensive Japanese language instruction and English-taught courses in business, economics, history, culture, politics, and general area studies. Students with high Japanese proficiency can choose to take subject courses taught in Japanese. Courses in a variety of disciplines are taught in English.

Japan: Seijo University Exchange. Qualified students may enroll for spring-semester or academic-year course offerings at Seijo University in Tokyo, Japan. An intensive Japanese language course precedes the start of the program.

Japan: Japan Center for Michigan Universities (JCMU) Study Abroad. Students participating in this fall, spring, or academic-year program will take classes in Japanese language and elective courses in Japanese area studies.

Jordan: AMIDEAST Study Abroad in Jordan. Students study in Amman, the capital city of Jordan. The Qasid Institute for Modern Standard & Classical Arabic is AMIDEAST's partner for this program. Students will take up to 7 credits of Arabic and an interdisciplinary course on contemporary Jordan, and they will choose from elective courses in several diverse subject areas, including social sciences, the humanities, and natural sciences. Internships are available.

Korea: Ajou University Exchange. This summer, spring, or academic year program is located in Suwon, South Korea. The University is unique because there are over 100 courses taught in English that closely match UWM offerings, especially in the sciences. Korean language and culture classes also are offered.

Korea: Korea University Sejong Campus. University Sejong Campus (KU-Sejong) is located in the center of Korea, in Jochiwon, a small town that is in proximity of three major cities that are accessible easily by either bus or train. KU-Sejong hosts 24 departments in the College of Humanities, Business and Economics, Science and Technology, Pharmacy, the School of Public Administration, and the School of Sports and Leisure Studies. Students may attend KU-Sejong during the fall, spring, or academic year.

Mexico: Tec Monterrey Exchange. This fall, spring, summer, or academic year exchange at the Instituto Tecnológico y de Estudios Superiores de Monterrey offers students a wide variety of liberal arts, business, and engineering courses for intermediate to advanced Spanish speakers.

Morocco: AMIDEAST Study Abroad in Rabat. AMIDEAST partners with Mohammed V University-Agdal for this program that is offered during the fall, spring, and academic year. All students take Modern Standard and Moroccan Arabic and then choose from various Middle East and North African studies courses. French courses also are available.

Morocco: AMIDEAST Study Abroad in Ifrane. For this program, AMIDEAST partners with Al Akhawayn University (known as AUI) located in the mountain resort town of Ifrane about 60 miles south of Fez. Students can study during the fall, spring, or academic year and are required to participate in a three-week orientation located in Rabat. This orientation is designed to introduce student to Moroccan Arabic, Moroccan culture, and daily life and
familiarize them with the logistics of the program.

**Peru: Pontificia Universidad Católica del Peru Study Abroad.** Located in Lima, Peru, this fall, spring, or academic-year program offers participants the opportunity to study a wide variety of courses from many disciplines, including liberal arts and Spanish language courses, at the prestigious university.

**Russia: Wyoming Saratov Study Abroad Program.** Partnering with the University of Wyoming and Saratov State University, this summer program gives students the opportunity to study Russian language.

**Spain: CIEE Seville Study Abroad Program.** This semester, year, or summer program in Seville is sponsored by CIEE. Students study Spanish language and choose a variety of other courses in civilization, culture, business, and education by following a distinct program track. Credit-bearing internships also are available. Courses taken through this program cannot be counted toward a Spanish major or minor at UWM.

**Spain: Universidad de Vigo Exchange.** Located in Galicia, Spain, students will have the opportunity to earn undergraduate or graduate credits in a variety of disciplines during a spring semester or year-long stay.

**Spain: Universidad de Santiago de Compostela Exchange.** In this spring-semester or year-long exchange program, students can earn undergraduate or graduate credits in a wide variety of disciplines.

**Sweden: Jönköping Exchange.** Students may study at Jönköping University for a semester or for an academic year. Engineering, business, and economics courses are taught in English.

**Sweden: Mälardalen Exchange.** Learn about Swedish language and culture, Scandinavian studies, and a variety of other classes, some of which are conducted in English. The subjects taught at the university range from engineering; the natural, social, and behavioral sciences; and the humanities.

**Switzerland: Eurocentres in Lausanne Study Abroad.** This summer, UWinteriM, fall, or spring program gives students the opportunity to study intensive French. It is open to students of all levels and includes cultural excursions and field trips to encourage cultural immersion.

**Taiwan: Mandarin Training Center Study Abroad.** The Mandarin Training Center is the Chinese language training unit of the National Taiwan Normal University in Taipei, which is known for its innovative curriculum and small class sizes. Students can study during the summer, fall, spring, or academic year.

**Thailand: Mae Fah Luang University Exchange.** Students select from a variety of courses in English that include Hmong and heritage studies, computer science, management, and law.

For more information concerning these exchange and study abroad programs, please contact the Center for International Education, located in Pearse Hall 166, (414) 229-5182, www.studyabroad.uwm.edu.

**PRE-PHYSICIAN ASSISTANT**

Dorrie VanKerkvoorde, *Academic Advisor, Student Academic Services, Pre-PA Advisor, (414) 229-4654*, unertl@uwm.edu, www.prepa.uwm.edu

Students wishing to become a physician assistant should consult the pre-PA advisor early in their undergraduate career for help in planning a program. An appointment with the advisor each semester is recommended strongly. Later, the advisor also can assist students in the application process.

The vast majority of PA programs in the country are highly competitive Master’s Degree programs and take 2–3 years to complete once admitted to the professional program. Many, but not all, PA schools require that applicants take the Graduate Record Exam (GRE). Significant clinical exposure to patient care is required to become a competitive candidate for most PA programs. Students are strongly
encouraged to work or volunteer in a health care setting on an on-going basis.

Requirements for admission to PA schools vary widely. However, many PA schools consider the following as minimal preparation for admission: 1 year of English; mathematics at least through pre-calculus and statistics; 2 â€“ 3 years of chemistry, including inorganic, organic chemistry and biochemistry; several biology courses (see below). Physics is rarely required.

Many PA schools specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, pre-PA students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

Courses That Typically Satisfy PA School Admission Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIO 203</td>
<td>Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>BIO 101</td>
<td>General Survey of Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 383</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HS (HCA) 222</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>Math â€“ a semester of calculus</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Statistics â€“ any statistics course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Although the courses listed above are mandatory for admission to almost all PA schools, the rest of the program can be whatever the student wishes. Students are not required to major in biology or chemistry in order to gain admission to PA school.

UROP

The Undergraduate Research Opportunity Project (UROP) in the College of Letters and Science pairs students with faculty researchers across the University. Building on a long tradition of undergraduate research at UWM, the UROP assists undergraduates, even in their first years at UWM, to have the opportunity to engage, in a structured setting, with the research mission of the University. Students work side-by-side with faculty members on faculty research projects, and they receive academic credit for their work. The UROP is designed for highly motivated students who want to contribute to the creation of knowledge instead of just acquire it.

Interested students can request information online at our.uwm.edu or by contacting the UROP office (414-229-2641). The UROP staff will help students identify possible research projects and arrange for students to meet with the faculty members. Accepted students commit to a year-long course (for up to 6 credits) as an apprentice to a faculty mentor and, in addition, participate in a required one-credit research seminar with other students in the program. For more information, visit the UROP website.

WISCONSIN UNIVERSITIES UNITED NATIONS SUMMER SEMINAR

Since 1966, students from all UW System campuses and other universities have participated in this 6-credit program. Selected students spend one week at UW-Milwaukee in intensive study of international organizations and the United Nations. The Seminar then moves to New York City for one month, where attention shifts to briefings, library research,
and personal interviews with the personnel of the UN and various national missions. Students also use the UN’s Dag Hammarskjold Library for documentary research.

This program is administered by the Center for International Education (CIE) in the College of Letters and Science at the University of Wisconsin-Milwaukee. For more information, contact CIE, Pearse Hall 166, (414) 229-5182.

**Cultures and Communities Program**

Administered by the College of Letters and Science, the Cultures and Communities Program is open to undergraduate students in all of UWM's schools and colleges. The Cultures and Communities (CC) certificate brings together students and faculty members from many areas of the arts, sciences, humanities, social sciences, education, and the health professions.

The CC certificate provides a meaningful general education experience through courses focusing on U.S. multicultural studies, global and international perspectives, and the community and cultural contexts of art, science, health, and technology. It also contains a service learning/community engagement component that offers students the opportunity to participate in a wide variety of off-campus learning experiences in the Milwaukee community.

Students may earn the CC certificate while satisfying their L&S distribution and University general education requirements. In doing so, students can strengthen their preparation for careers in education, business, law, government, health care, and any other career areas that involve community engagement. Such professions increasingly demand applicants who have developed multicultural awareness, intercultural communication skills, and an understanding of how globalization affects us all.

More detailed information about the CC certificate can be found online at [cc.uwm.edu](http://cc.uwm.edu). Requirements for the certificate are listed in the General Education Requirements section of this catalog. A list of courses approved for the certificate appears in the L&S Certificate Programs section of the catalog. For more information, consult with the Interdepartmental Programs coordinator, Kate Powers, at powersk@uwm.edu or (414) 229-6686.

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**Certificate Programs**

Like a departmental minor, certificate programs offer a specific academic focus but differ by being interdisciplinary, allowing students to combine related courses in different disciplines to explore a common theme. Students who earn certificates demonstrate their intellectual commitment to a subject and their competence in scholarly areas, which can prove valuable at the graduate level or in the workplace.

The certificate programs listed below are available to all UWM undergraduates and, in most cases, to students who have previously earned a bachelor's degree from UWM or any other accredited institution. Others may be able to enroll as non-degree students if they meet UWM admission requirements.

Certificates are awarded at the time of graduation or upon completion of the program requirements.

- [American Indian Studies](#)
- [Courses: American Indian Studies (AIS)](#)
- [Ancient Mediterranean Studies](#)
- [Asian Studies](#)
- [Business and Technical Communications](#)
- [Celtic Studies](#)
- [Courses: Celtic Studies (CELTIC)](#)
- [Childhood and Adolescence Studies](#)
- [Comparative Ethnic Studies](#)
• Courses: Ethnic Studies (ETHNIC)
• Cultures and Communities
• Death Investigation (see Forensic Sciences)
• Food Studies
• Courses: Food Studies (FOOD)
• Forensic Sciences
• Forensic Toxicology (see Forensic Sciences)
• French and Francophone Studies
• Hmong Diaspora Studies
• Courses: Hmong (HMONG)
• Latin American and Caribbean Studies
• Courses: Latin American and Caribbean Studies (LACS)
• Latino Studies
  Courses: Latino Studies (LATINO)
• Lesbian, Gay, Bisexual, and Transgender Studies
  Courses: Lesbian, Gay, Bisexual, and Transgender Studies (LGBT)
• Middle Eastern and North African Studies
• Peace Studies and Conflict Resolution
  Courses: Peace Studies (PEACEST)
• Premedical Studies
• Russian and East European Studies
• Scandinavian Studies
  Courses: Scandinavian Studies (SCNDVST)
• TESOL (Teaching English to Speakers of Other Languages)
• Urban Studies
  Courses: Urban Studies (URB ST)

Pre-Professional Programs

Pre-Forestry (Wildlife Management)

Pre-Dentistry

Pre-Law

Pre-Medicine

Pre-Pharmacy

Pre-Veterinary Medicine

Other Pre-Professional Health Study
Students interested in chiropractic medicine, optometry, physician assistant, and podiatry careers can fulfill the admission requirements of these professional programs in the College of Letters and Science. Information concerning these requirements and the admission tests for the professional schools is available in the Student Academic Services office.

See also the Colleges of Health Sciences and Nursing for information on health studies programs that students can complete at UWM.

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**Special Areas of Study**

Courses that do not appear elsewhere in this catalog are listed herein.

**Courses**

**L&S Humanities (L&S HUM)**

**L&S Natural Sciences (L&S NS)**

**L&S Social Sciences (L&S SS)**

**Literature in Translation**

**Peer Mentoring.** See L&S HUM 291, 292, 391.

**UROP.** See L&S HUM 296, L&S NS 296, L&S SS 294, 295, 296.

**Washington Internship.** See L&S SS 498.

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University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015: College of Letters and Science

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UWM Undergraduate Catalog 2014-2015

School of Architecture and Urban Planning

Architecture

- Courses: Architecture (ARCH)

Course of Study

The study of architecture at UWM consists of three levels that lead to the accredited professional degree of Master of Architecture. Students can enter the program at various levels depending on their background. Students with previous nonprofessional baccalaureate degrees should see the University of Wisconsin-Milwaukee Graduate School Bulletin for more information on the Master of Architecture and Doctor of Philosophy in Architecture programs.

All undergraduate students are required to meet the UWM General Education Requirements.

Level 1 (Pre-Architecture). Freshman year should be taken at UWM. If taken at another institution whose credits are accepted for transfer by UWM, the student is expected to achieve equivalent background and skills. Significant differences in courses will require that additional course work be completed prior to Level 2 admission.

Level 2 (Architectural Studies). Sophomore, junior and senior years, taken in the Department of Architecture. This period provides a general introduction to the problems and techniques of architectural design. Students who are accepted into Level 2 and complete the program receive the Bachelor of Science in Architectural Studies. This is not an accredited professional degree. It can provide, however, a foundation for employment as a nonprofessional in architecture or in fields related to architecture, construction, design, and planning, or for graduate study in architecture or in other disciplines concerned with the physical environment.

Level 3 (Master of Architecture). Graduate study taken in the Department of Architecture. See the University of Wisconsin-Milwaukee Graduate School Bulletin for details.

Level 4 (Ph.D. in Architecture). Graduate study taken in the Department of Architecture. See the University of Wisconsin-Milwaukee Graduate School Bulletin for details.

Level 1 (Pre-Architecture)

Admission. Students applying to the University of Wisconsin-Milwaukee and declaring a primary interest in architectural studies on their application forms will be designated as Pre-Architecture students. They will be advised by the School’s undergraduate advisor in the Student Advising Office. The policies and procedures of the School of Architecture and Urban Planning apply to admitted students, even though they may be enrolled in courses in another school or college at UWM.

Pre-Architecture students are not automatically accepted into the Level 2 program. A separate application is required.

New freshman admission to the School of Architecture and Urban Planning is based on an overall assessment of both academic and nonacademic qualifications. The primary review factors for admission are the strength and quality of the
high school curriculum, high school class percentile, grade point average and the ACT or SAT. For preferential consideration, applications (including ACT or SAT scores) must be completed no later than April 1 (for summer/fall term) or November 1 (for spring term). Applications not complete by the priority date or not meeting these admission criteria will be considered on a space-available basis.

See general freshman admission requirements of the University.

Academically qualified international student applicants must have a TOEFL score of at least 79 (iBT) or 550 (PBT), or they may be admitted following successful completion of the Intensive English Program at UWM, as demonstrated by an appropriate TOEFL score.

**Transfer students** are admitted on a selective basis. Preference is given to students whose applications are completed, including all required supporting documents, no later than April 1 (for the following summer/fall term) or November 1 (for the following spring term) and who have completed (or will have completed by the anticipated enrollment date) at least 24 degree credits with a cumulative grade point average of at least 2.50 (on a 4.0 scale). In addition, transfer applicants must meet the same high school English and mathematics course requirements as new freshman applicants. International transfer student applicants also must meet the minimum TOEFL requirement.

Students enrolled in other UWM schools or colleges who wish to enter the architecture program will also be considered for admission on the basis of the criteria listed above. They must file an internal transfer intent form (available in the Student Advising Office) no later than February 1 (for the following summer/fall term) or November 1 (for the following spring term) to be considered for preferential review.

**Course of Study.** The Level 1 curriculum consists of a series of required courses within the Department and recommended courses outside the Department to satisfy competency and distribution requirements. Course work offered by the Department at Level 1 introduces the student not only to architecture as a field of study and a profession, but also to the skills and project experiences useful in deciding whether to pursue further study in the field of architectural design.

**Freshman Year Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch 100 Introduction to Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Arch 101 Introduction to Architectural Theory</td>
<td>3</td>
</tr>
<tr>
<td>Arch 280 Introduction to Architectural Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, the Department occasionally offers a special topics course (190) for experimental course work.

**Competency Requirements.** Demonstrated competency in English, mathematics, physics, and foreign language is required for admission to Level 2.

**English.** Complete English 102 with a grade of C or higher or place beyond English 102 on the English Placement Exam (EPT) (Oral and Written Communication Competency Part A). Oral and Written Communication Part B satisfied by completing at lease one OWC Part B course (see schedule of classes for this listing).

**Mathematics.** Placement code of a 36 on the Math Placement Test; or a grade of C or better in both Math 105 and 117 (Quantitative Literacy Competency Part A); Quantitative Literacy Competency Part B satisfied by completing at least one QL Part B course (see schedule of classes for this listing).

**Physics.** Satisfactorily complete a college-level physics course (100, 107, 120 or higher).
Foreign Language. Please refer to the Academic Information section at the beginning of this catalog for specific information on this requirement.

Directed Electives (30 cr.) The Department requires courses outside the department to give students a foundation in the arts, humanities, social sciences, and natural sciences. These courses satisfy the distribution area of the UWM General Education Requirements (GER).

Arts 6
Humanities 6
Social Sciences 6
Natural Sciences, to include a lab 6

Additional 6 from any of the above categories

One course must satisfy the GER Cultural Diversity Requirement. A list of courses is provided in the online Schedule of Classes each semester under "General Education Requirements."

One course must satisfy the Service Learning Requirement. A list of courses is provided in the online Schedule of Classes each semester.

Free Electives (1 cr.) Course work taken in English composition, introductory mathematics, and foreign language counts toward this requirement. Students interested in advanced work in a field outside architecture should investigate the prerequisites for advanced courses in that field to build the base for later work.

Directed electives can be completed in Level 2.

Level 2 (Architectural Studies)

Admission. Entrance into this level requires the following standards: completion of a minimum of 30 credits (sophomore standing); a cumulative GPA of at least 2.75 in both the overall college record and required Level 1 architecture courses (Arch 100, 101, 280, or their equivalent). Because enrollment is contingent upon available staffing and facilities, satisfaction of the minimum requirements does not guarantee admission to Level 2. The academic quality of the student’s Level I studies are carefully reviewed by the School’s BSAS Committee. In exceptional circumstances, students with a GPA below 2.75 may be admitted on probation. Admission to the University does not guarantee acceptance by the Department of Architecture.

Enrollment priority is given to students with the highest cumulative GPAs for admission into Architecture 310.

Application instructions are available in the School’s Student Advising Office. Students applying for the fall semester must submit a Level 2 application by May 1. Transfer students should apply at least one month prior to this date to assure adequate time for receipt and evaluation of transcripts by the University’s Department of Admissions and Recruitment.

Transfer students applying to Level 2 must demonstrate that they have taken the equivalent of the Level 1 program of study (Arch 100, 101, 280). A design portfolio showing the student’s architectural work must be submitted to demonstrate course equivalencies.

Advanced students transferring from another architectural or related program (design, engineering, landscape architecture) may petition the BSAS Committee for advanced standing. Students must show that prior course work parallels course work in the Level 2 program. A minimum of two semesters of work, consisting of at least 24 credits in total, must be completed in residency for the bachelor’s degree.

Second-degree candidates enrolled in architecture courses are classified as seniors in architecture. They are not subject
to the University’s General Education Requirements; however, they must complete (or have completed) the Level 1 Mathematics and Physics Competency Requirements. Admission to the School as a second-degree candidate requires a cumulative grade point average of at least 2.75 (on a 4.0 scale) on the previous undergraduate record. Applications must be completed no later than March 1 (for the summer/fall term) or October 1 (for the spring term). For information on second-degree requirements, students should schedule an appointment with Tammy Taylor, undergraduate administrator, (414) 229-4015.

Course of Study. Students admitted to the Level 2 program must complete the courses listed below.

Two introductory core studios in the sophomore year (12 cr.)

- Arch 310 Fundamentals of Architectural Design I 6
- Arch 320 Fundamentals of Architectural Design II 6

1. Core Studios (12 cr.)

- Arch 410 Architectural Design I 6
- Arch 420 Architectural Design II 6

2. Core Courses (18 cr.)

- Arch 281 Virtual Modeling 3
- Arch 300 Architectural History and Theory 3
- Arch 301 Architectural Structures and Construction 3
- Arch 302 Architecture and Human Behavior 3
- Arch 303 Architecture and Environmental Response 3
- Arch 305 Architecture, Site and Climate 3

3. 24 credits of electives at the 300 level or above

Of these, 15 must be completed in the Department of Architecture. A minimum of 9 credits at the 300 level or above must be taken outside the Department of Architecture. Students intending to enter the Level 3 program will need to complete a third, 600-level studio. For the BSAS degree, at least the last 24 credits must be earned in residency at UWM. A total of 120 credits is required for graduation. The minimum cumulative GPA required for all UWM credits and for all Level 2 credits attempted is 2.50.

BSAS Requirements

Total credits needed to graduate: 120

Completion of this degree does not guarantee admission to the graduate programs in Architecture.

LEVEL 2 ACADEMIC REGULATIONS

Action on Unsatisfactory Grades. Students in the Level 2 program are placed on academic probation when their
GPA in any semester, or their cumulative GPA, is less than 2.5 in Level 2 courses or all UWM courses. A student will be dropped from the Level 2 program if the cumulative GPA in all Level 2 or all UWM courses is less than 2.5 for any two consecutive semesters. A student admitted to the Level 2 program on probation is automatically dropped from Level 2 after the first semester if the first semester GPA in Level 2 courses or the cumulative GPA in all UWM courses is below 2.5.

Students discontinued for grade point deficiency may petition for re-entry on probation only after they have been out of the Level 2 program for at least one semester, and can show that they have improved their academic skills.

**Architectural Studies Minor**

The Department of Architecture offers a Minor in Architectural Studies for students enrolled in other degree programs on campus. To receive recognition for coursework completed toward the minor, students must satisfactorily complete courses in the minor track.

**Course of Study**

Students who choose the Minor in Architectural Studies must have a declared major in another school or college at UWM and must have a minimum of a 2.75 grade point average.

The minor consists of 18 credits in architecture courses. Nine credits numbered 300 or above must be taken in residence at UWM. All credits in the minor must be completed with an overall grade point average of at least 2.75, and no courses may be taken on a credit/no credit basis.

**Limitations**

The Department reserves the right to cap admissions into the minor on the basis of course availability. Students in the major have first priority registration for all courses in the Department. In cases of full capacity, students enrolled in the minor will be ranked and admitted into the program or into a course on the basis of overall GPA.

**Required Courses for the Minor**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch 100</td>
<td>Introduction to Architecture (Fall)</td>
<td>3</td>
</tr>
<tr>
<td>Arch 101</td>
<td>Introduction to Architectural Theory (Spring)</td>
<td>3</td>
</tr>
<tr>
<td>Arch 280</td>
<td>Introduction to Architectural Drawing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required 300-Level or Higher Architecture Electives, 9 cr. (see sample listing below).**

**Examples of 300-Level or Higher Architecture Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arch 300</td>
<td>Architectural History and Theory</td>
<td>3</td>
</tr>
<tr>
<td>Arch 301</td>
<td>Architectural Structures and Construction</td>
<td>3</td>
</tr>
<tr>
<td>Arch 302</td>
<td>Architecture and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>Arch 303</td>
<td>Architectural and Environmental Response</td>
<td>3</td>
</tr>
<tr>
<td>Arch 305</td>
<td>Architecture, Site and Climate</td>
<td>3</td>
</tr>
<tr>
<td>Arch 326</td>
<td>Energy Design Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>Arch 330</td>
<td>Design Methodology</td>
<td>3</td>
</tr>
<tr>
<td>Arch 331</td>
<td>Design Theory</td>
<td>3</td>
</tr>
<tr>
<td>Arch 340</td>
<td>Urban Design</td>
<td>3</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------------</td>
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</tr>
<tr>
<td>Arch 350</td>
<td>Green Milwaukee</td>
<td>3</td>
</tr>
<tr>
<td>Arch 380</td>
<td>Drawing in Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Arch 383</td>
<td>Landscape Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Arch 390</td>
<td>Special Topics*</td>
<td>3</td>
</tr>
<tr>
<td>Arch 391</td>
<td>Directed Research</td>
<td>3</td>
</tr>
<tr>
<td>Arch 392</td>
<td>Independent Studies</td>
<td>3</td>
</tr>
<tr>
<td>Arch 510</td>
<td>Survey of Structural Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Arch 520</td>
<td>Environmental Systems: Illumination and Thermal Comfort</td>
<td>3</td>
</tr>
<tr>
<td>Arch 522</td>
<td>Environmental Systems: Lighting and Acoustical Design</td>
<td>3</td>
</tr>
<tr>
<td>Arch 531</td>
<td>Historic Concepts of Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Arch 532</td>
<td>Modern Concepts of Architecture</td>
<td>3</td>
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<tr>
<td>Arch 535</td>
<td>Pattern Language</td>
<td>3</td>
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<tr>
<td>Arch 551</td>
<td>American Vernacular Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Arch 553</td>
<td>Vernacular Buildings and Groupings</td>
<td>3</td>
</tr>
<tr>
<td>Arch 557</td>
<td>Behavioral Factors in Housing Design</td>
<td>3</td>
</tr>
<tr>
<td>Arch 559</td>
<td>Aging and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>Arch 560</td>
<td>Introduction to Historic Preservation</td>
<td>3</td>
</tr>
<tr>
<td>Arch 561</td>
<td>Measured Drawing for Architects</td>
<td>3</td>
</tr>
<tr>
<td>Arch 562</td>
<td>Preservation Technology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Arch 581</td>
<td>Law and Professional Practice</td>
<td>3</td>
</tr>
<tr>
<td>Arch 584</td>
<td>Urban Landscape Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Arch 585</td>
<td>Research Methods in Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Arch 586</td>
<td>Programming for Architecture Design</td>
<td>3</td>
</tr>
<tr>
<td>Arch 587</td>
<td>Post-Occupancy Evaluation of Built Environments</td>
<td>3</td>
</tr>
</tbody>
</table>

or other Level II courses approved by the SARUP Advising Office in consultation with instructors.

* Arch 390 Special Topics is offered with variable course content and may be taken more than once with a change in topic to a maximum of 12 credits.

For more information, contact Tammy Taylor, Undergraduate Administrator, School of Architecture and Urban Planning, AUP 225, Email: ttaylor@uwm.edu, Phone: 414/229-4015.

**Academic Regulations**

For information on the University-wide Academic Action Policy and honors for scholarship, please refer to the Academic Information section at the beginning of this catalog.

**Special Opportunities**
The Department of Architecture provides the following opportunities for students and faculty to develop course work with a special focus.

The **Independent Studies** course (Arch 392) rewards students with credits for worthwhile activities originated by the students, such as special reading or research programs, community service, or independent design projects. To be eligible, students in the Department of Architecture must have completed one semester of work and must have a cumulative GPA of at least 3.0 in their work in the Department. Students in other UWM departments must have the permission of their own departments and the Department of Architecture.

The **Directed Research** course (Arch 391) offers an opportunity for students to participate in current research projects of architecture faculty. Eligibility and approval for registration are at the discretion of the faculty members in charge of the projects.

The **Special Topics** course (Arch 390) permits individual faculty members to develop special subjects on a one-semester basis. Special Topics courses are announced at registration for the following semester.

The Department has developed a semester-long Study Abroad Program which allows students to combine foreign travel and study under the tutelage of a departmental faculty member(s). The location of the program may vary from year to year. Admission to the program is selective, based on the student’s previous academic performance.

**Accident and Health Insurance.** Use of the School’s woodworking shop requires that students provide evidence of personal accident and health insurance to the School of Architecture and Urban Planning Dean’s Office.

**Level 3 (Master of Architecture)**

A student who receives the Bachelor of Science in Architectural Studies does not automatically qualify for the Level 3 graduate program, which must be completed for the accredited professional degree. Students must satisfy both the general admission requirements of the Graduate School and the special requirements of the Department of Architecture. Applicants should consult the University of Wisconsin-Milwaukee Graduate Bulletin.

**Level 4 (Doctor of Philosophy in Architecture)**

A student who receives the Master of Architecture or Master of Urban Planning degree does not automatically qualify for the Level 4 Ph.D. program. Students must satisfy both the general admission requirements of the Graduate School and the special requirements of the Department of Architecture Ph.D. Program. Applicants should consult The University of Wisconsin-Milwaukee Graduate Bulletin.

**Courses**

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**Architecture (ARCH)**

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Web Home Pages:
[ School of Architecture and Urban Planning ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
**Architecture**
[ School of Architecture and Urban Planning ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
School of Architecture and Urban Planning

Urban Planning

- Courses: Urban Planning (URBPLAN)

Although the professional planning program offered at UWM is a master’s degree requiring two years of graduate study, a number of planning courses are available to undergraduates. They include:

1. A cluster of introductory courses reviewing urban problems and solutions for freshmen and sophomores, and introducing urban planning to upper-level undergraduates.

2. A cluster presenting the planning process in a general urban context.

3. A group of upper-level courses which introduce more specialized aspects of planning in contexts ranging from neighborhoods, through suburbs, to new towns and planned communities; and approaches from fiscal planning to environmental issues.

These courses are offered to students interested in learning more about planning and the roles of planners in addressing urban problems, and complement other programs such as architecture, business, economics, engineering, geography, social work, sociology, and political science.

Certificate Program

The Department of Urban Planning also offers undergraduates the opportunity to obtain a Certificate in Urban Planning Studies. All undergraduate students are eligible. A cumulative GPA of 3.0 or better and a total of 18 credits from among designated courses are required. The intent of the program is to recognize those students who obtain a thorough introduction to urban planning through course work. These courses provide students with an understanding of many of the most important problems facing urban society and help prepare students for a variety of careers and graduate study. Interested students should inquire in the Student Advising Office about either the Certificate Program or appropriate courses as preparation for graduate study in urban planning.

DESIGNATED COURSES: 12 CR.

Both of the following (6 cr.)

- UrbPlan 140 Issues in Contemporary Urban Planning 3
- UrbPlan 141 Urban Planning Solutions to Contemporary Urban Problems 3

One "Great Cities" course (3 cr.)

- UrbPlan 315 Planning for Great Cities of the World 3
One skills course (3 cr.)

- UrbPlan 591 Introduction to Urban Geographic Information Systems (GIS) 3
- UrbPlan 651 Land Use Planning Practice 3
- UrbPlan 655 Negotiation Theory and Practice for Planners 3

Electives: 6 Cr.

Students may take any urban planning courses, including those listed above, to fulfill the elective credit requirement. Courses may be counted only once toward the certificate.

Total: 18 Urban Planning Credits

Courses

Urban Planning (URBPLAN)
Civil Engineering

Web Home Pages:

- College of Engineering & Applied Science
- Civil Engineering and Mechanics
- Courses:
  - Civil Engineering and Mechanics (CIV ENG)

Civil engineering is a profession that deals with the infrastructure of society. Civil engineers design bridges, buildings, and other structures; develop and design water resources, waste treatment, and environmental management facilities; plan and design highway and transportation systems; and design foundations, earth and rock structures, and tunnels. Students completing a civil engineering program have an opportunity for professional employment with industry; utilities; consulting firms; contractors; local, state, and federal government agencies; research laboratories; and academia.

Mission Statement: The mission of the UWM undergraduate Civil Engineering Program is to educate students to become civil engineering professionals who plan, design, build, and manage the infrastructure needed for a modern urban society and the environment.

Program Educational Objectives: The educational objectives of the undergraduate Civil Engineering Program are:

1. Graduates apply broad-based knowledge of mathematics, science, and engineering science for solving engineering problems and creating engineering designs in the civil engineering profession.
2. Graduates demonstrate leadership in infrastructure design by creating solutions for complex urban problems by synthesizing and implementing knowledge from multiple disciplines.
3. Graduates are leaders in the workplace and in professional organizations by demonstrating effective communication skills, ethical responsibility, and social awareness.
4. Graduates adapt to changes in the urban and global environment by exhibiting intellectual curiosity, innovating, pursuing continuous education, and embracing diverse ideas.

Accreditation: The civil engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

Structural Engineering Minor

The minor in structural engineering is designed specially for students in the following majors: Architecture, Mechanical Engineering, Industrial and Manufacturing Engineering, Materials, Geology, and Physics. This minor is not available to civil engineering majors. The 18-credit minor requires CIV ENG 335, 360, and 372, and one of the following two courses: CIV ENG 571 or 572. Choose any two additional courses from the following list: CIV ENG 401, 431, 456, 463, 502, 560, 566, 571, 572, 573, 574, 578, 579; and ARCH 301, 510, and 516. More information on the minor may be obtained from the Civil Engineering department, (414) 229-5422.

The Civil Engineering and Mechanics Department offers many elective courses which normally allow each student to concentrate in one of four areas: geotechnical engineering, structural engineering, transportation and municipal engineering, or water resources and environmental engineering.
**Geotechnical engineering** deals with soil and rock as engineering materials. Geotechnical engineers may be involved in the analysis, design, and construction of foundations, retaining structures, earth and rock dams, excavations, tunnels, landfills, toxic waste remediation projects, and other areas related to construction.

**Structural engineering** deals with the analysis, design, fabrication, and construction of all types of structures, including buildings, bridges, tunnels, retaining walls, foundations, dams, and aerospace and pressure vessels. With recent advances in the area, the structural engineer must have considerable competence in the use of computers and understanding of structural materials.

**Transportation and municipal engineering** includes activities to carry out the public works programs of local government units, including the planning, design, construction, and management functions related to street, sewerage, and water supply systems. Transportation engineering deals with the planning, design, and operation of transportation systems, such as highways, public transit, airports, and railways.

**Water resources and environmental engineering** deals with problems of water resources and environment. It includes water resources development such as water supply systems for human, irrigation, energy, and industrial use; and environmental mitigation practices such as sewerage systems, contamination remediation, drainage, flood and erosion control as well as pollution control. It also includes natural resources management such as river, lake, and groundwater restoration and management.

**CIVIL ENGINEERING CURRICULUM**

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in civil engineering is 127. Students who need background preparation courses in math, english, foreign language, and chemistry may need additional credits.

**Engineering Core Courses: 37 credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 100</td>
<td>CEAS Freshman Orientation (recommended only)</td>
<td>1</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>IND ENG 111</td>
<td>Introduction to Engineering</td>
<td>3</td>
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<tr>
<td>IND ENG 112</td>
<td>Engineering Drawing &amp; Computer-Aided Design/Drafting</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 280</td>
<td>Computer-Based Engineering Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials (^1)</td>
<td>4(^1)</td>
</tr>
<tr>
<td>ELECENG 306</td>
<td>Introduction to Electrical Engineering</td>
<td>4</td>
</tr>
<tr>
<td>MECHENG 301</td>
<td>Basis Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 320</td>
<td>Introduction to Fluid Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

\(^1\) Civil engineering majors may take CIV ENG 431 (with proper prerequisites) in place of MATLENG 201.

**Civil Engineering Major: 23 credits**
CIV ENG 250  Surveying for Construction  3
CIV ENG 335  Soil Mechanics  3
CIV ENG 372  Introduction to Structural Design  4
CIV ENG 411  Water Resources Design  3
CIV ENG 413  Environmental Engineering  3
CIV ENG 490  Transportation Engineering  3
CIV ENG 494  Principles of Civil Engineering Design  1
CIV ENG 495  Senior Design  3

**Mathematics Requirement: 14-16 credits**

One of the following Calculus sequences must be completed:
MATH 231-232-233
MATH 221-222 (Honors)
and
ELECENG 234 (Analytical Methods in Engineering)

**Chemistry Requirement: 5-10 credits**

One of the following sequences must be completed:
CHEM 102-104 or
CHEM 105 (Suggested)

**Physics Requirement: 8 credits**

PHYSICS 209 - 210

**GER Distribution Requirement: 15 credits**

- Arts 3 credits
- Humanities 6 credits
- Social Science 6 credits

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

**Free Electives: 2 credits**

**English Composition Requirement: 0-6 credits**

The English Composition requirement is satisfied by:

- 1. Earning a satisfactory score on the English placement test, or
- 2. Earning a grade of C or higher in ENGLISH 102.

**Foreign Language Requirement: 0-8 credits (for students starting fall 1999 or later)**

The foreign language requirement can be completed with one of these options:

- Two years of a single foreign language in high school;
Two semesters of a single foreign language in college; or
Demonstrate ability by examination.

1 Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above. Possible math placements for engineering students are MATH 090, 095, 105, 225, 116, 117, or 231. Possible English placements are ENGLISH 090, 095, 101, or 102. Possible chemistry placements are CHEM 100, 102, or 105.

Technical Electives - Civil Engineering Major: 21 Credits Required. The Civil Engineering and Mechanics Department offers numerous elective courses which allow students to work in one of four areas of concentration. Normally a minimum of 12 credits will be taken in an area of concentration. Students who do not follow one of the four areas of concentration will require approval by the Department chairperson for their programs.

Students interested in geotechnical engineering should take CIV ENG 456 and select at least three courses from CIV ENG 360, 412, 463, 492, and 598. Students also are strongly recommended to take GEOSCI 470.

Students interested in municipal and transportation engineering should select at least three courses from CIV ENG 492, 590, 592, 594, 596, 598, and 610.

Students interested in structural engineering should take CIV ENG 360, 463, 571, and 572, and select at least two courses from CIV ENG 456, 560, 573, 574, 578, and 579.

Students interested in water resources and environmental engineering should take at least three courses from CIV ENG 412, 511, 521, and 610.

Group A Technical Electives: Take minimum of 12 credits of Group A electives, or minimum of 9 credits of Group A electives and 3 credits of Group B electives.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 412</td>
<td>Applied Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 456</td>
<td>Foundation Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 463</td>
<td>Introduction to Finite Elements</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 492</td>
<td>Environmental Impact Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 511</td>
<td>Water Supply and Sewerage</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 521</td>
<td>Water Quality Assessment</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 571</td>
<td>Design of Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 572</td>
<td>Design of Steel Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 573</td>
<td>Design of Masonry Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 574</td>
<td>Design of Prestressed Concrete Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 578</td>
<td>Design of Wood Structures</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 579</td>
<td>Earthquake Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 590</td>
<td>Urban Transportation Planning</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 592</td>
<td>Traffic Control</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 594</td>
<td>Physical Planning and Municipal Engineering</td>
<td>3</td>
</tr>
</tbody>
</table>
CIV ENG 596 Transportation Facilities Design 3
CIV ENG 598 Pavement Analysis and Design 3
CIV ENG 610 Introduction to Water and Sewage Treatment 3
CIV ENG 614 Hazardous Waste Management 3

**Group B Technical Electives:** Select no more than 9 credits from this list.

CIV ENG 360 Introduction to Structural Analysis 3
CIV ENG 401 Intermediate Strength of Materials 3
CIV ENG 431 Materials of Construction 3
CIV ENG 502 Experimental Stress Analysis 3
CIV ENG 560 Structural Analysis 3
CIV ENG 580 Engineering Analysis in Applied Mechanics 3

**Group C Technical Electives:** Select 3 to 6 credits from this list of science and math courses with a minimum of 3 credits from Group C1.

**Group C1: Technical Electives:** Take a minimum of 3 credits of Group C1 electives.

GEO SCI 414 Structural Geology 3
GEO SCI 463 Physical Hydrogeology 3
GEO SCI 464 Chemical Hydrogeology 3
Any Biology course 150-level or above
Any Atmospheric Science course 200-level or above

**Group C2:** Select no more than 3 credits form the C2 list.

IND ENG 467 Introductory Statistics for Physical Sciences and Engineering Students 3
Any Mathematics course 400-level or above, MATH 313, MATH 321, MATH 322
Any Chemistry course 200-level or above, CHEM 104*
Any Physics course 300-level or above, PHYSICS 214, PHYSICS 215

* Students who take CHEM 102 (or 117) may use CHEM 104 (118) to satisfy three credits of the Group C technical elective requirement.

**Group D Technical Electives:** Select no more than 3 credits from this list.

EAS 001 Co-op Work Period* 3
ENGLISH 206 Technical Writing 3
GEOG 403 Remote Sensing 3
GEOG 215 Introduction to Geographic Information Sciences 3
COMP SCI 201 Introductory Computer Programming 3
IND ENG 455 Basic Optimization Techniques 3
IND ENG 465 Operations Analysis 3
MATLENG 431  Welding Engineering  3
MECHENG 321  Basic Heat Transfer  4
URBPLAN 591  Introduction to Urban Geographic Information Systems  3

* Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.
Computer Engineering

Web Home Pages:
- College of Engineering & Applied Science
- Computer Engineering
- Courses: Computer Science (COMPSCI)
- Courses: Electrical Engineering (ELECENG)

Computer Engineering is part of the Department of Electrical Engineering and Computer Science at UWM. Computer engineering pertains to the design, implementation, and maintenance of hardware and software components of computers and computer-controlled equipment. Our program provides students with a broad and strong technical background in the field. It also helps students develop a solid grounding in computing, mathematics, and engineering. The students will learn to apply these theoretical principles to design hardware, software, networks, and computerized equipment for diverse application domains.

Mission Statement: The Department of Electrical Engineering and Computer Science is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

Program Educational Objectives: The educational objectives of the undergraduate Computer Engineering Program are:

1. Graduates will have successful careers in computer engineering fields or will be able to successfully pursue advanced degrees in computing fields.
2. Graduates will have the ability to identify, formulate, and solve computer engineering problems, and understand the impact of engineering solutions in a global and societal context.
3. Graduates will have the ability to communicate effectively and function successfully on multidisciplinary teams.
4. Graduates will demonstrate awareness of modern engineering tools and contemporary issues in technology, society, and ethical responsibilities.
5. Graduates will engage in lifelong learning and professional development.

Computer Engineering Major. The minimum number of credits required to complete the Bachelor of Science in Computer Engineering is 126. Students who need background preparation courses in math, English, and foreign language may need additional credits.

COMPUTER ENGINEERING CURRICULUM
Engineering Core Courses: 10 credits

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
</tr>
<tr>
<td>COMP SCI 201</td>
<td>Introductory Computer Programming</td>
</tr>
<tr>
<td>ELEC ENG 301</td>
<td>Electrical Circuits I</td>
</tr>
<tr>
<td>ELEC ENG 360</td>
<td>Engineering Economic Analysis</td>
</tr>
</tbody>
</table>

Computer Engineering Major: 55 credits
Mathematics Requirement: **14 to 16 credits suggested**

One of the following Calculus sequences must be completed:

Math 231-232-233
Math 221-222 (Honors)

and

ElecEng 234 (Analytical Methods in Engineering), 4

Chemistry Requirement: **5 credits suggested**

One of the following Calculus sequences must be completed:

Chem 105 (5 credits suggested)
Math 221-222

or

Chem 102-104 (10 credits)

Physics Requirement: **8 credits**

Physics 209-210

GER Distribution Requirement: **15 credits**

<table>
<thead>
<tr>
<th>Arts</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Social Science</td>
<td>6</td>
</tr>
</tbody>
</table>

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

Free Electives: **2 credits**
English Composition Requirement: 0-6 credits**

The English Composition requirement is satisfied by:

- Earning a satisfactory score on the English placement test; or
- Earning a grade of C or higher in English 102.

Foreign Language Requirement: 0-8 credits (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

**Placement Examinations.** Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above. Possible Math placements for engineering students are Math 090, 095, 101, or 102. Possible chemistry placements are Chemistry 100, 102, or 105.

TECHNICAL ELECTIVES: COMPUTER ENGINEERING MAJOR (16 credits)

Students must choose courses from Groups A, B, and C as indicated below:

**Group A Technical Electives. Select 9 to 12 credits from the following list:**

All Computer Science and Electrical Engineering courses 300-699 that are not explicitly listed in another category.

- Ind Eng 475 Simulation Methodology 3
- Ind Eng 572 Reliability Engineering 3

**Group B Technical Electives. Choose 4 credits from the following list:**

- Comp Sci 595 Capstone Design Project 4
- Elec Eng 595 Capstone Design Project 4

**Group C Technical Electives. Choose 0-3 credits from the following list:**

- Comp Sci 481 Server-side Internet Programming 3
- Comp Sci 482 Rich Internet Applications 3
- Comp Sci 581 Web Languages and Standards 3
- Comp Sci 658 Topics in Applied Computing 3
- Elec Eng 471 Electrical Power Systems 3
- Elec Eng 472 Intro to Wind Energy 3
- Bio Sci 150 Foundations of Biology I 4
- Bio Sci 152 Foundations of Biology II 4
- Bus Adm 292 Intro to Entrepreneurship and Small Business Foundation 3
- Bus Adm 447 Entrepreneurship 3
- EAS 200 Co-op Work Period 3
- EAS 497 Study Abroad 3
- English 206 Technical Writing 3
Ind Eng 467  Introductory Statistics for Physical Science and Engineering  3
Matl Eng 201  Engineering Materials  4
Matl Eng 481  Electronic Materials  3
Mech Eng 301  Basic Engineering Thermodynamics  3
Mech Eng 321  Basic Heat Transfer  4

Web Home Pages:
[ College of Engineering & Applied Science ]
[ Computer Engineering ]

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Computer Science

- Web Home Pages:
  - College of Engineering & Applied Science
  - Computer Science
- Courses:
  - Computer Science (COMPSCI)

The discipline of computer science pertains to the study and design of computer systems, hardware and software, computing techniques, and underlying theory. Our program provides a student with a broad technical background in computer science. It is a flexible program providing breadth and permitting a student to develop strengths in selected areas within computer science, as well as in related areas such as electrical engineering, mathematics, or business, depending on a student’s interests. Technical electives available in the Computer Science major span courses in a broad spectrum of areas such as Networks, Computer Security, Artificial Intelligence, and Database Systems.

**Mission Statement:** The Department of Electrical Engineering and Computer Science is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

**Program Educational Objectives:** The educational objectives of the undergraduate Computer Science Program are:

1. Alumni of the program will have successful careers built on their understanding of formal and applied methods of solving problems using computer theory, hardware, and software.
2. In their professional lives, alumni of the program will demonstrate problem-solving and design skills, including the ability to formulate problems and their solutions, think creatively, communicate effectively, and work collaboratively.
3. Alumni of the program will exercise professional responsibility and be able to adapt to an ever-changing professional environment.

**Accreditation:** The computer science program is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

**Computer Science Minor.** The computer science minor is directed toward those students wishing to develop some strength and background in computer science. This minor also is available to those who have already graduated. The 18-credit minor requires COMPSCI 201 and COMPSCI 315. The remaining 12 credits are to be selected from the undergraduate computer science courses or courses approved by the department, and must include at least 6 credits at the 300 level or above. No more than 6 credits may overlap with a student's undergraduate major. The student must obtain a minimum GPA, as specified by the department, in the courses used to complete the minor.

**Web Development Certificate.** The Web Development Certificate is designed to offer students the opportunity to complement their major field of study with an additional concentration in web programming. This certificate is also available to those who have already graduated. The 15-credit certificate requires COMPSCI 481 and 482; one course to be selected from COMPSCI 113, ART 324 or L&I SCI 240. The remaining 6 credits are selected from ART 218, 224, 325, BUS ADM 531, 532, COMMUN 313, 412, COMPSCI 112, 351, 361, 425, 444, CURRINS 530, 547, ENGLISH 439, HCA 444, 542, L&I Sci 110, 310, 410.Â No more than 6 credits may overlap with a student’s undergraduate
major. At least 8 credits must be completed at UWM. The student must maintain a minimum GPA as specified by department, in courses used to complete the certificate.

Computer Science Major. The minimum number of credits required to complete the Bachelor of Science in Computer Science with a major in Computer Science is 120. Students who need background preparation courses in math, english, and foreign language may need additional credits.

COMPUTER SCIENCE CURRICULUM

Computer Science Major: 53 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 150</td>
<td>Survey of Computer Science (recommended)</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>COMPSCI 201</td>
<td>Introductory Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 251</td>
<td>Intermediate Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 317</td>
<td>Discrete Information Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 337</td>
<td>Systems Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 351</td>
<td>Programming Data Structures</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 361</td>
<td>Introduction to Software Engineering</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 395</td>
<td>Social, Professional, and Ethical Issues</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 417</td>
<td>Introduction to the Theory of Computation</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 431</td>
<td>Programming Language Concepts</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 535</td>
<td>Data Structures and Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 557</td>
<td>Introduction to Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 595</td>
<td>Capstone Project</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 354</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics Requirement: 8 credits

One of the following Calculus sequences must be completed:

MATH 231-232 or

MATH 221-222 (Honors)

Natural Science Requirement: 12 credits (including at least 1 laboratory credit)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150-152</td>
<td>Foundations of Biology I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>BIO SCI 202-203</td>
<td>Anatomy &amp; Physiology I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>CHEM 102-104</td>
<td>General Chemistry I &amp; II</td>
<td>10</td>
</tr>
<tr>
<td>PHYSICS 120-122</td>
<td>General Physics I &amp; II</td>
<td>8</td>
</tr>
<tr>
<td>PHYSICS 209-210</td>
<td>Physics I &amp; II</td>
<td>8</td>
</tr>
</tbody>
</table>

Remaining credits to be chosen from the natural sciences electives from GER List.

GER Distribution Requirement: 15 credits

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>6</td>
</tr>
</tbody>
</table>
Social Science 3
COMMUN 105 (Business and Professional Communication) 3

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

**English Composition Requirement: 0-6 credits**

The English Composition requirement is satisfied by earning a satisfactory score on the English placement test, or earning a grade of C or higher in English 102.

**Foreign Language Requirement: 0-8 credits** (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

**Placement Examinations.** Once admitted to UWM, most computer science students are required to take placement examinations in mathematics and English. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above. Possible math placements for engineering students are MATH 090, 095, 105, 116, 117, 231, or 221. Possible English placements are ENGLISH 090, 095, 101, or 102.

**TECHNICAL ELECTIVES – Select 12 credits from the following three lists:**

All non-required Computer Science courses numbered 400-699 are either Computer Science or Applied Technology Electives. The Applied Technology Electives are in the range 480-489, 580-589, or 680-689. All other non-required Computer Science courses in the 400-699 range are Computer Science Electives.

**Computer Science Electives (Select 6 to 12 credits.)**

All non-required Computer Science courses in the 400-699 range as described above.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 367</td>
<td>Introduction to Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 451</td>
<td>Introduction to VLSI Design</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 457</td>
<td>Digital Logic Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

**Applied Computer Science Electives (Select 0 to 6 credits from this list.)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPSCI 481</td>
<td>Server-side Internet Programming</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 482</td>
<td>Rich Internet Applications</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 581</td>
<td>Web Languages and Standards</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 658</td>
<td>Topics in Applied Computing</td>
<td>3</td>
</tr>
</tbody>
</table>

**Supplemental Electives (Select 0 to 6 credits from this list.)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 490</td>
<td>Entrepreneur Internship</td>
<td>3</td>
</tr>
<tr>
<td>EAS 001</td>
<td>Engineering Co-op Work Period</td>
<td>1-3</td>
</tr>
<tr>
<td>EAS 497</td>
<td>Study Abroad</td>
<td>1-3</td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>
Applied Mathematics Electives (6 credits from the following list)

- MATH 233 Calculus and Analytic Geometry III 4
- ELECENG 234 Analytical Methods in Engineering 4
- MATH 337 Introduction to Number Theory 3
- MATH 431 Modern Algebra with Applications 3
- MATH 451 Axiomatic Geometry 3
- MTHSTAT 361 Introduction to Mathematical Statistics I 3
- IND ENG 467 Introductory Statistics for Physical Sciences and Engineering Students 3
- MATH 234 (Alternative to ELECENG 234) 4
- MATH 467 (Equivalent to IND ENG 467) 3

Free Electives: Variable credits
University-level courses of your choice as needed to reach a minimum of 120 total credits.
Electrical Engineering

- Web Home Pages:
  - College of Engineering & Applied Science
  - Electrical Engineering
- Courses:
  - Electrical Engineering (ELECENG)

Electrical engineers are at the forefront of developing technologies to improve and enhance our society. They are involved with understanding the fundamentals of nature to improve design methods and techniques, as well as applying their creativity to solving challenging problems. Electrical engineers design and analyze systems for supplying electric power; navigation systems for automobiles, aircraft, and spacecraft; audio and visual communication systems; and systems for information processing and computing.

The major in electrical engineering provides the undergraduate student with a broad understanding of the many areas within the field of electrical engineering. At the same time, the curriculum provides a choice of technical electives designed to strengthen the student in a chosen area of specialization.

Mission Statement: The Department of Electrical Engineering and Computer Science is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

Program Educational Objectives: The educational objectives of the undergraduate Electrical Engineering Program are:

1. Graduates are creative problem solvers who provide and communicate solutions to challenging problems by applying fundamental mathematical, scientific, and engineering principles, while giving special considerations to social issues, human factors, and ethical issues.
2. Graduates solve problems as members of a team, and will exhibit high levels of professionalism in their work.
3. Graduates are successfully engaged in careers in electrical engineering and related fields that support Wisconsin industry.
4. Graduates are engaged in continued professional development.

Accreditation: The civil engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

Electrical Engineering Minor

The minor in electrical engineering is designed for students in engineering and science majors. The minor is not available to electrical engineering majors. It requires students to take a minimum of 21 credits, of which not more than 6 credits overlap with the student's major. Students must attain a minimum GPA of 2.0 in the minor.

Students must take at least 15 credits from the following core courses: ELECENG 301, 305, 310, 330, 335, 354, 361, 362, 367, and 595.

No more than 6 credits from the following list may be counted towards the minor: ELECENG 410, 420, 421, 429, 436, 437, 451, 457, 461, 462, 465, 471, EE 474 or ME 474, 490, 541, 561, 562, 565, 572, EE 574 or ME 574, EE 575, COMPSCI 458, 459, 536, MATLENG 481, MECHENG 321. More information on the minor may be obtained from the Department of Electrical Engineering and Computer Science, (414) 229-5252.

ELECTRICAL ENGINEERING CURRICULUM
The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in electrical engineering is 126. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

**Engineering Core Courses: 23 credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 101</td>
<td>Fundamentals of Electrical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>COMPSCI 201</td>
<td>Introductory Computer Programming$^1$</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 301</td>
<td>Basis Engineering Thermodynamics</td>
<td>3</td>
</tr>
</tbody>
</table>

$^1$ COMPSCI 151 or COMPSCI 153 can be substituted for COMPSCI 201.

**Electrical Engineering Major: 36 credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 305</td>
<td>Electrical Circuits II</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 310</td>
<td>Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 330</td>
<td>Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 335</td>
<td>Electronics II</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 354</td>
<td>Digital Logic</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 361</td>
<td>Electromagnetic Fields</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 362</td>
<td>Electromechanical Energy Conversion</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 367</td>
<td>Introduction to Microprocessors</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 420</td>
<td>Random Signals and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 595</td>
<td>Capstone Design Project</td>
<td>4</td>
</tr>
</tbody>
</table>

**Mathematics Requirement: 14 to 16 credits suggested**

One of the following calculus sequences must be completed:

- MATH 231-232-233
- MATH 221-222 (Honors)

and

- ELECENG 234 (Analytical Methods in Engineering)

**Chemistry Requirement: 5 credits suggested**

One of the following sequences must be completed:

- CHEM 105 (5 credits suggested)
- CHEM 102-104 (10 credits)

**Physics Requirement: 8 credits**

- PHYSICS 209-210

**GER Distribution Requirement: 15 credits**
Arts 3 credits
Humanities 6 credits
Social Science 6 credits

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

Free Electives: 2 credits

English Composition Requirement: 0-6 credits

The English Composition requirement is satisfied by:

- Earning a satisfactory score on the English placement test or
- Earning a grade of C or higher in ENGLISH 102.

Foreign Language Requirement: 0-8 credits (for students starting fall 1999)

The foreign language requirement can be completed with one of these options:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

2 Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, english, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above. Possible math placements for engineering students are MATH 090, 095, 105, 225, 116, 117, 231, or 221. Possible english placements are ENGLISH 090, 095, 101, or 102. Possible chemistry placements are CHEM 100, 102, or 105.

Electives: Electrical Engineering Major. The electrical engineering program requires a total of 21 credits of technical electives and 3 credits of a probability and statistics elective, chosen as follows.

Group A Technical Electives: Select at least 15 credits from the following list.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELECENG 410</td>
<td>Principles of Discrete Systems &amp; Digital Signal Processing</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 421</td>
<td>Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 436</td>
<td>Introduction to Medical Instrumentation</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 437</td>
<td>Introduction to Biomedical Imaging</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 451</td>
<td>Introduction to VLSI Design</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 457</td>
<td>Digital Logic Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 458</td>
<td>Computer Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 461</td>
<td>Microwave Engineering</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 462</td>
<td>Antenna Theory</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 464</td>
<td>Fundamentals of Photonics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 465</td>
<td>Broadband Optical Networks</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 471</td>
<td>Electric Power Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 474</td>
<td>Introduction to Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 482</td>
<td>Introduction to Nanoelectronics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 490</td>
<td>Special Topics</td>
<td>1-3</td>
</tr>
<tr>
<td>ELECENG 541</td>
<td>Integrated Circuits and Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 562</td>
<td>Telecommunication Circuits</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
</tr>
<tr>
<td>------------</td>
<td>-------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>ELECENG 565</td>
<td>Optical Communications</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 572</td>
<td>Power Electronics</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 574</td>
<td>Intermediate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 575</td>
<td>Analysis of Electric Machines and Motor Drives</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 588</td>
<td>Fundamentals of Nanotechnology</td>
<td>3</td>
</tr>
<tr>
<td>ELECENG 599</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 447</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 459</td>
<td>Fundamentals of Computer Graphics</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 520</td>
<td>Computer Networks</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCI 530</td>
<td>Computer Networks Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>EAS 001</td>
<td>Co-op Work Period&lt;sup&gt;1&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>EAS 497</td>
<td>Study Abroad&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economics</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 481</td>
<td>Electronic Materials</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 321</td>
<td>Basic Heat Transfer</td>
<td>4</td>
</tr>
</tbody>
</table>

<sup>1</sup> Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.

<sup>2</sup> Students who earn 3 or more credits of Study Abroad may use 3 of those credits as approved technical electives.

**Group B Technical Electives:** choose no more than 6 credits from the following list.

Any Mathematics course 400-level or above, or MATH 313, MATH 321, or MATH 322

Any Chemistry course 200-level or above, or CHEM 104

Any Physics course 300-level or above, or PHYSICS 214, or PHYSICS 215

Any Biology course 150-level or above

Any Atmospheric Science course 200-level or above

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[ Electrical Engineering ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:

**Electrical Engineering**

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[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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Industrial Engineering

Web Home Pages:

- College of Engineering & Applied Science
- Industrial and Manufacturing Engineering
- Courses:
  - Industrial Engineering (IND ENG)

Industrial and manufacturing engineers are concerned with the design, improvement, installation, and operation of integrated systems of people, material, information, and energy for the development of environmentally sound and globally competitive enterprises.

Industrial/manufacturing engineers are needed in industries ranging from medical products and equipment manufacturing to automotive and electronic components manufacturing. Their skills benefit organizations such as hospitals, banks, airlines, telecommunications companies, and more. Some activities of an industrial/manufacturing engineer include: methods improvement; plant layout; integration of automation components (CAD and CAM); logistics; supply chain management; economic analysis; optimization of resources; quality control; reliability analysis; and ergonomics, i.e., design of workplaces, equipment, and tools for maximum productivity and employee comfort and safety.

In manufacturing companies, industrial/manufacturing engineers may be responsible for production and inventory control, quality control, plant layout, and work station design, and may lead the effort for the introduction of new technologies and other advancements. In service organizations these engineers may develop methods for optimal utilization of resources, such as doctors, nurses, and medical equipment in a hospital; determine the optimal number of communication lines and service level for a telephone company; participate in the development of a total quality management system for a bank, etc.

Mission Statement: The mission of the department is to provide a broad-based education in industrial and manufacturing engineering and to prepare students for a diversified career in industry, academia, government, and private sectors.

Program Educational Objectives: The educational objectives of the undergraduate Industrial Engineering Program are:

1. Graduates will have successful careers as professionals in industrial engineering or related fields.
2. Graduates contribute to improving efficiency, productivity, and/or quality of products manufactured or services provided by their organization.
3. Graduates demonstrate professionalism and continue their professional development.

Accreditation: The industrial engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

INDUSTRIAL ENGINEERING CURRICULUM

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in industrial engineering is 125. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Engineering Core Courses: 26 credits
EAS 200  Professional Seminar  1
IND ENG 111  Introduction to Engineering*  3
IND ENG 112  Engineering Drawing and Computer-Aided Design/Drafting*  3
IND ENG 360  Engineering Economic Analysis  3
COMP SCI 201  Introductory Computer Programming  3
CIV ENG 201  Statics  3
CIV ENG 202  Dynamics  3
MATLENG 201  Engineering Materials  4
ELECENG 301  Electrical Circuits I  3

* MECHENG 110 and 111 may substitute for IND ENG 111 and 112 for transferring students.

** Industrial Engineering Major: 36 credits **

IND ENG 350  Manufacturing Processes  3
IND ENG 370  Introduction to Operations Analysis  3
IND ENG 455  Operations Research I  3
IND ENG 465  Operations Research II  3
IND ENG 467  Introductory Statistics for Physical Science & Engineering Students  3
IND ENG 470  Methods Engineering  3
IND ENG 475  Simulation Methodology  3
IND ENG 485  Senior Design Project  3
IND ENG 571  Quality Control  3
IND ENG 575  Design of Experiments  3
IND ENG 580  Ergonomics  3
IND ENG 583  Facility Layout and Material Handling  3

Mathematics Requirement: 14-16 credits

One of the following Calculus sequences must be completed:

MATH 231-232-233  
MATH 221-222 (Honors)
and  
ELECENG 234 (Analytical Methods in Engineering)

Natural Science Requirement: 16-18 credits

CHEM 102-104  
or  
CHEM 105  
and  
Approved Natural Science Elective** (Minimum 3 credits)

PHYSICS 209-210 (8 credits)

GER Distribution Requirement: 15 credits

Arts  3 credits
Humanities  6 credits
Social Science  6 credits
One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

**Free Electives: 4 credits**

**English Composition Requirement: 0-6**

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test, or
2. Earning a grade of C or higher in ENGLISH 102.

**Foreign Language Requirement: 0-8 (for students starting fall 1999 or later)**

The foreign language requirement can be completed with one of these options:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

**Approved Natural Science Elective Courses**

Atmospheric Science (100 level or above)

Biological Sciences (150 or above)

Physics (300 level or above)

Conservation and Environmental Sciences 210

Geosciences (100, 102, 150 or above)

Math (240, 300 or above)

1 Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above. Possible math placements for engineering students are MATH 090, 095, 105, 225, 116, 117, 231, or 221. Possible English placements are ENGLISH 090, 095, 101, or 102. Possible chemistry placements are CHEM 100, 102, or 105.

**Technical Electives—Industrial Engineering Major.** The industrial engineering program requires a total of 12 credits of technical electives, chosen from the following list. At least 6 credits must be in courses from the Industrial and Manufacturing Engineering Department.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IND ENG 390</td>
<td>Senior Thesis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 405</td>
<td>Product Realization</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 572</td>
<td>Reliability Engineering</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 582</td>
<td>Ergonomic Job Evaluation Techniques</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 584</td>
<td>Biodynamics of Human Motion</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 587</td>
<td>Lean Production Systems</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 590</td>
<td>Topics in Industrial and Systems Engineering</td>
<td>1-3</td>
</tr>
<tr>
<td>IND ENG 699</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>EAS 001</td>
<td>Co-op Work Period</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Placement Examinations.
1 This option is open only to students who earn 3 or more credits of Co-op.
Materials Engineering

- Web Home Pages:
  - College of Engineering & Applied Science
  - Materials Engineering
- Courses:
  - Materials Engineering (MATLENG)

In today’s world there is a constant demand for new materials of superior quality or with particular combinations of properties. It is the task of the materials engineer to use chemical and physical processes to provide new materials, more useful and valuable products, and improvements in the properties of existing materials on a cost-effective basis.

Materials engineering, like other branches of engineering, is based on mathematics, physics, and chemistry.

Necessarily, the engineer must work with every type of material, whether it be metal, glass, plastic, or naturally occurring rock or wood; and electrical conductors, semiconductors, or insulators, transparent or otherwise. The variety of available materials is as wide as the applications; to use them to good effect, the engineer must understand the nature of the substances which might be used for a particular purpose and the chemical and physical processes which are involved in their production.

Being in a central position in the development and design of new products, the materials engineer has excellent and varied career opportunities, extending from fundamental research through primary production processes and subsequent manufacturing to quality control and failure analysis.

Mission Statement: The Materials Department is committed to provide comprehensive undergraduate and graduate education in Materials Engineering, outstanding research, and service to our students, College, the University of Wisconsin-Milwaukee, and the community, as well as to active participation in professional societies.

Program Educational Objectives: The educational objectives of the undergraduate Materials Engineering Program are:

1. Graduates have successful careers in materials engineering and/or related fields, including graduate education.
2. Graduates utilize their materials engineering knowledge to address contemporary issues for society.
3. Graduates apply their knowledge of materials engineering to problem solving and projects in their chosen field of employment.

Accreditation: The materials engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

Materials Minor. The Materials minor is directed toward students who want to strengthen their background in materials engineering. The 18-credit minor requires MATLENG 330, 402, and 451. Choose any three additional courses from the following list: MATLENG 380, 410, 411, 421, 431, 442, 455, 461, 465, 471, and 481. More information on the minor may be obtained from the Materials Department, (414) 229-5181.

MATERIALS ENGINEERING CURRICULUM

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in materials engineering is 124. Students who need background preparation courses in math, English, foreign language, and
Engineering Core Courses: 24 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 100</td>
<td>CEAS Freshman Orientation or It’s a Material World (recommended only)</td>
<td>1</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>IND ENG 467</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3</td>
</tr>
<tr>
<td>COMP SCI</td>
<td>Introduction to Scientific Programming or Introductory Computer</td>
<td>3</td>
</tr>
<tr>
<td>151/201</td>
<td>Programming</td>
<td></td>
</tr>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
</tbody>
</table>

Materials Engineering Major: 28 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATLENG 330</td>
<td>Materials and Processes in Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 402</td>
<td>Physical Metallurgy</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 410</td>
<td>Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 411</td>
<td>Materials Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 442</td>
<td>Thermodynamics of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 443</td>
<td>Transport and Kinetics in Materials Processing</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 452</td>
<td>Ceramic Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 453</td>
<td>Polymeric Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 490</td>
<td>Senior Design Projects</td>
<td>4</td>
</tr>
</tbody>
</table>

Mathematics Requirement: 14-16 credits

One of the following Calculus sequences must be completed:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 231-232-233</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 221-222 (Honors)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Chemistry Requirement: 5-10 credits

One of the following sequences must be completed:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 105</td>
<td>(Suggested)</td>
<td></td>
</tr>
<tr>
<td>or</td>
<td>CHEM 102-104</td>
<td></td>
</tr>
</tbody>
</table>
Physics Requirement: 10 credits

PHYSICS 209 + 214
PHYSICS 210 + 215

GER Distribution Requirement: 15 credits

Arts 3 credits
Humanities 6 credits
Social Science 6 credits

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

Free Electives: 4 credits

English Composition Requirement: 0-6 credits

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test, or
2. Earning a grade of C or higher in ENGLISH 102.

Foreign Language Requirement: 0-8 credits (for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.

Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, English, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above. Possible math placements for engineering students are MATH 090, 095, 105, 225, 116, 117, 231, or 221. Possible English placements are ENGLISH 090, 095, 101 or 102. Possible chemistry placements are CHEM 100, 102, or 105.

Technical Electives—Materials Engineering Major. 24 credits of technical electives are to be selected from the following lists. At least 18 of the Technical Electives credits must be from Groups A1 and A2 as outlined below:

Group A1 Technical Electives (Structure): Select at least 3 courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATLENG 380</td>
<td>Engineering Basics for Materials</td>
<td>1</td>
</tr>
<tr>
<td>MATLENG 461</td>
<td>Environmental Degradation of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG</td>
<td>Friction and Wear</td>
<td>3</td>
</tr>
<tr>
<td>465/MECHENG 465</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATLENG 481</td>
<td>Electronic Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 483</td>
<td>Materials for Energy Systems</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 485</td>
<td>Introduction to Biomaterials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 511</td>
<td>Advanced Materials Characterization</td>
<td>3</td>
</tr>
</tbody>
</table>

Group A2 Technical Electives (Processing): Select at least 2 courses:
MATLENG 421 Metal Casting Engineering 3
MATLENG 431 Welding Engineering 3
MATLENG 455 Engineering Opposites 3
MATLENG 460 Nanomaterials and Nonmanufacturing 3
MATLENG 471 Engineering Composites 3

**Group B Technical Electives: Select no more than 6 credits:**

CHEM 104 General Chemistry and Qualitative Analysis 5
CHEM 223 Elementary Quantitative Analysis 4
CHEM 341 Introductory Survey of Organic Chemistry 3
CIV ENG 401 Intermediate Strength of Materials 3
CIV ENG 431 Materials for Construction 3
CIV ENG 466 Mechanics of Composite Materials 3
CIV ENG 502 Experimental Stress Analysis 3
EAS 001 Co-op Work Period\(^1\) 3
ENGLISH 206 Technical Writing 3
IND ENG 111 Introduction to Engineering 3
IND ENG 112 Engineering Drawing & Computer Aided Design/Drafting 3
IND ENG 360 Engineering Economic Analysis 3
MATH 413 Introduction to Numerical Analysis 3
MATLENG 699 Independent Study 3
MECHENG 110 Engineering Fundamentals I 4
MECHENG 111 Engineering Fundamentals II 4
MECHENG 301 Basic Engineering Thermodynamics 3
MECHENG 320 Introduction to Fluid Mechanics 3

\(^1\) Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.
Mechanical Engineering

- Web Home Pages:
  - College of Engineering & Applied Science
  - Mechanical Engineering
- Courses:
  - Mechanical Engineering (MECHENG)

Mechanical engineering is one of the broadest, and most general, fields of engineering. Combining some of the basic elements found in electrical and civil engineering with more in-depth use of mechanical design and thermal science principles, a mechanical engineering education will provide its students with the tools required to solve a wide range of technological problems.

Mechanical engineers work on the design, development, analysis, production, and testing of a wide variety of devices, products, and systems. The devices and systems developed by mechanical engineers can be found in many fields, including energy conversion, power generation, environmental control, manufacturing, materials handling and processing, and transportation and construction equipment.

The mechanical engineering curriculum is based upon fundamental engineering science courses in mechanics, the thermal sciences, mechanical design, and controls. Students also take courses in experimentation, computer aided engineering, vibrations, and mechatronics. A variety of technical elective courses are also offered. With these courses, a student can either pursue a general mechanical engineering education, or can tailor a program of study towards a concentration in either thermal sciences or mechanical systems.

Mission Statement: The mission of the UWM Mechanical Engineering Department is:

1. To provide quality educational programs for undergraduate and graduate students planning careers in mechanical engineering or related fields.
2. To create and disseminate knowledge through research, publications, and other scholarly activities.
3. To foster a close partnership with industry and government.
4. To engage in professional and academic service activities of value to the university and the community at large.

Program Educational Objectives: The educational objectives of the undergraduate Mechanical Engineering Program are:

1. Graduates have successful professional careers in mechanical engineering.
2. Graduates use experimental, mathematical, and computational tools appropriate for solving mechanical engineering problems.
3. Graduates apply skills critical to the design process including the ability to formulate problems, think creatively, communicate effectively, and work collaboratively.
4. Graduates engage in continued professional development.

Accreditation: The mechanical engineering program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700.

Thermal sciences deals with the transformation of energy from one form to another, as well as the transmission and use of energy. Areas of interest in thermal sciences include (a) power generation through fossil-fueled steam power plants and solar energy, as well as design of heat exchangers and boilers, (b) propulsion systems, such as internal-combustion engines, for all types of vehicles, (c) heating, ventilation, and air conditioning systems, and (d) the environmental effects and control of pollutants produced in these applications.
Mechanical systems focuses on the synthesis, analysis, and optimization of different types of devices and machines. The scope of problems studied ranges from small individual components to automated factory systems using robots and CNC tools. Designers must use imagination, ingenuity, and good judgment to create workable ideas and transform them into physical realities. Use of modern computational tools such as finite element methods, solid modeling, and CAD/CAM packages is emphasized. An understanding of industrial design practices and standards is also required.

A general mechanical engineering course of study may be desirable for students preferring the broadest background. The program consists of taking the basic courses required by all mechanical engineering students, and supplementing these courses with a range of technical electives that provide the student with background in key areas in thermal and mechanical systems.

Students should consult their advisors for help in choosing the most appropriate concentration and technical electives for their own interests. Suggested technical elective sequences for all three areas are outlined below.

It is recommended that students interested in thermal sciences take MECHENG 402 and at least two courses from MECHENG 415, 423, 432, 434, 435, 451, or 463.

It is recommended that students interested in mechanical systems take MECHENG 463 and at least two courses from MECHENG 461, 462, 475, 476, or 478.

It is recommended that students interested in general mechanical engineering take at least two courses from MECHENG 402, 463, or 475.

Mechanical Engineering Minor

The minor in mechanical engineering is designed for students in engineering, architecture, and physics. The minor is not available to mechanical engineering majors. The minor requires 20 credits of coursework in 300-level or above courses in mechanical engineering. Students interested in obtaining the minor should contact the director of undergraduate studies for advice on the appropriate program of study, (414) 229-5191.

MECHANICAL ENGINEERING CURRICULUM

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in Mechanical Engineering is 128. Students who need background preparation courses in math, english, foreign language, and chemistry may need additional credits.

Engineering Core Courses: 35 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EAS 100/MECHENG 150</td>
<td>Freshman Orientation or How Things Work</td>
<td>1-3</td>
</tr>
<tr>
<td>EAS 200</td>
<td>Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MECHENG 110</td>
<td>Engineering Fundamentals I</td>
<td>4</td>
</tr>
<tr>
<td>MECHENG 111</td>
<td>Engineering Fundamentals II</td>
<td>4</td>
</tr>
<tr>
<td>COMP SCI 151/201</td>
<td>Introduction to Computer Programming</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 201</td>
<td>Statics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 202</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>CIV ENG 303</td>
<td>Strength of Materials</td>
<td>4</td>
</tr>
<tr>
<td>ELECENG 301</td>
<td>Electrical Circuits I</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 201</td>
<td>Engineering Materials</td>
<td>4</td>
</tr>
<tr>
<td>MECHENG 301</td>
<td>Basic Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 320</td>
<td>Introduction to Fluid Mechanics</td>
<td>3</td>
</tr>
</tbody>
</table>

Mechanical Engineering Major: 33 credits

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHENG 321</td>
<td>Basic Heat Transfer</td>
<td>4</td>
</tr>
<tr>
<td>MECHENG 323</td>
<td>Fluid Mechanics Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>
MECHENG 330  Materials and Processes in Engineering  3
MECHENG 360  Mechanical Design I  3
MECHENG 366  Design of Machine Elements  4
MECHENG 370  Computer Aided Engineering Laboratory  2
MECHENG 438  Mechanical Engineering Experimentation  3
MECHENG 474  Introduction to Control Systems  4
MECHENG 479  Control and Design of Mechatronic Systems  3
MECHENG 496  Senior Design Project  3
IND ENG 467  Introductory Statistics for Physical Science and Engineering Students  3

Mathematics Requirement: 14-16

One of the following Calculus sequences must be completed:
MATH 231-232-233
MATH 221-222 (Honors)

and
ElecEng 234 (Analytical Methods in Engineering)

Chemistry Requirement: 5-10 credits

One of the following sequences must be completed:

CHEM 105 (Suggested)
or
CHEM 102-104

Physics Requirement: 10 credits

PHYSICS 209 and 214
PHYSICS 210 and 215

GER Distribution Requirement: 15 credits

Art  3 credits
Humanities  6 credits
Social Science  6 credits

One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.

English Composition Requirement: 0-6 credits

The English Composition requirement is satisfied by:

1. Earning a satisfactory score on the English placement test, or
2. Earning a grade of C or higher in ENGLISH 102.

Foreign Language Requirement: 0-8 credits(for students starting fall 1999 or later)

The foreign language requirement can be completed with one of these options:

- Two years of a single foreign language in high school;
- Two semesters of a single foreign language in college; or
- Demonstrate ability by examination.
Placement Examinations. Once admitted to UWM, most engineering students are required to take placement examinations in mathematics, engineering, and chemistry. Students with previous college-level credits in these areas may not be required to take placement exams. The placement exams are administered by the UWM Testing Center, Mellencamp Hall, Room B28, (414) 229-4689. The results of these tests help students determine the appropriate course in which to register. Background prerequisite courses may be required in addition to the courses listed above. Possible math placements for engineering students are MATH 090, 095, 105, 225, 116, 117, 231, or 221. Possible English placements are ENGLISH 090, 095, 101, or 102. Possible chemistry placements are CHEM 100, 102, or 105.

MECHANICAL ENGINEERING MAJOR

The Mechanical Engineering Department regularly offers elective courses that allow students to concentrate in either energy engineering or mechanical design. While the College does not guarantee that specific electives will be offered annually, there will be a sufficient number offered to allow for one of these concentrations.

Technical Electives—Mechanical Engineering Major (14 Credits). Select a minimum of 14 credits of technical electives from Groups A, B, and C as indicated below.

Group A Technical Electives: Students must select at least 6 credits from this list.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECHENG 402</td>
<td>Thermal-Fluid Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 420</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 463</td>
<td>Introduction to Finite Elements</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 475</td>
<td>Vibrations in Mechanical Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Group B Technical Electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIV ENG 401</td>
<td>Intermediate Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATLENG 410</td>
<td>Mechanical Behavior of Materials</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 360</td>
<td>Engineering Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>IND ENG 455</td>
<td>Basic Optimization Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MATH 413</td>
<td>Introduction to Numerical Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 601</td>
<td>Advanced Engineering Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 415</td>
<td>Modern Thermo Manufacturing Processes</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 423</td>
<td>Applied Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 432</td>
<td>Internal Combustion Engines</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 434</td>
<td>Air Conditioning System Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 435</td>
<td>Power Plant Theory and Design</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 436</td>
<td>Solar Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 455</td>
<td>Processing of Plastics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 456</td>
<td>Metal Casting Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 457</td>
<td>Engineering Composites</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 461</td>
<td>Intermediate Kinematics and Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 465</td>
<td>Friction and Wear</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 469</td>
<td>Introduction to Biochemical Engineering</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 476</td>
<td>Introduction to Robotics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 490</td>
<td>Topics in Mechanical Engineering</td>
<td>1-3</td>
</tr>
<tr>
<td>MECHENG 574</td>
<td>Intermediate Control Systems</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 580</td>
<td>Engineering Analysis in Applied Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>MECHENG 699</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Group C Technical Electives: Take up to a maximum of 3 credits in this category.

1 Students who earn 3 or more credits of MECHENG 699 may use only 3 of those credits as approved Free Technical Electives.
School of Education

Curriculum and Instruction

- Early Childhood Level
- Middle Childhood - Early Adolescence Level
- Mathematics: Early Adolescence - Adolescence Level
- English: Early Adolescence - Adolescence Level
- Science: Early Adolescence - Adolescence Level
- Social Studies: Early Adolescence - Adolescence Level
- Bilingual Education (supplemental)
- English as a Second Language (Major): Early Adolescence - Adolescence Level
- English as a Second Language (Minor)
- World Language Major: Early Adolescence - Adolescence Level
- World Language Minor

Courses: Curriculum and Instruction (CURRINS)

The goal of the Department of Curriculum and Instruction is to prepare PK–12 teachers who are able to provide maximum educational opportunities for children in the urban community.

At the undergraduate level this department offers teacher education programs at the Early Childhood Level (grades PK-3), Middle Childhood through Early Adolescence Level (grades 1-8), Early Adolescence through Adolescence Level (grades 6-12), and Early Childhood through Adolescence Level (PK-12).

The graduate program, which includes inservice education, is described in the University of Wisconsin-Milwaukee Graduate Bulletin and in materials provided by the Department of Curriculum and Instruction, Room 310, Enderis Hall.

Undergraduate students majoring in curriculum and instruction programs are initially enrolled as Education – Intended majors. They are advised in the School of Education and follow the curriculum requirements of their department program.

Early Childhood Education Program Requirements

The Early Childhood Education (ECE) program is available for those interested in teaching young children from birth to age 8 or third grade in a variety of early care/education and school programs. Students are admitted to the major immediately in the first year or upon transfer to UWM. Those who wish to acquire a State of Wisconsin teaching license can complete the state-mandated assessments through the program. Additionally students can attain add-on certification in ECE and English as a Second Language (ESL) or Bilingual Education.

Sequenced Courses

Sequenced courses must be taken in the order indicated. Add additional courses with those listed under “Additional Course Requirements.”
Semester 1, 2, or 3
The English Composition and Math Skills requirements must be completed in the first year if placement testing allows the student to start with English 102 and Math 175 or in the second year if English 095 and/or 101 or Math 090 and/or 094/095 must be completed first.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research (with a C or better) OR a 4 or higher on the English Placement Test</td>
<td>0-3</td>
</tr>
<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I (with a C or better)</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 140</td>
<td>Field Experience with Families and Communities</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 312</td>
<td>Introduction to Early Childhood Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester 4

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 240</td>
<td>Field Experience with Dual Language Learners</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 501</td>
<td>Language Acquisition for Children of Diverse Backgrounds</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester 5

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 302</td>
<td>Curriculum Design in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 340</td>
<td>Field Experience in Preschool and Kindergarten Classrooms</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 502</td>
<td>Emergent Literacy and Biliteracy in the Early Childhood Classroom</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 534</td>
<td>Instructional Strategies in Early Childhood</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester 6

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 440</td>
<td>Field Experience in the Primary Grades</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 504</td>
<td>Teaching Reading and Writing in Early Childhood: The Primary Years</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester 7

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 338</td>
<td>Teaching of Science in Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 540</td>
<td>Advanced Field Experience in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 541</td>
<td>Principles and Methods of Teaching ESL</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester 8

Choose one of the following options:

**Option 1: Education Degree in Early Childhood**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 540</td>
<td>Advanced Field Experience in Early Childhood Education</td>
<td>6</td>
</tr>
</tbody>
</table>

**Option 2: Education Degree in Early Childhood plus Early Childhood Certification**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 601</td>
<td>Early Childhood Seminar for Student Teaching</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 640</td>
<td>Student Teaching in Early Childhood</td>
<td>12</td>
</tr>
</tbody>
</table>

**Option 3: Education Degree in Early Childhood plus Early Childhood and English as a Second Language Certification**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 601</td>
<td>Early Childhood Seminar for Student Teaching</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 640</td>
<td>Student Teaching in Early Childhood</td>
<td>9</td>
</tr>
<tr>
<td>CURRINS 443</td>
<td>Student Teaching in English as a Second Language: Minor</td>
<td>3</td>
</tr>
</tbody>
</table>

**Option 4: Education Degree in Early Childhood plus Early Childhood and Bilingual Certification**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 601</td>
<td>Early Childhood Seminar for Student Teaching</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 640</td>
<td>Student Teaching in Early Childhood</td>
<td>9</td>
</tr>
<tr>
<td>CURRINS 442</td>
<td>Student Teaching in Bilingual Education</td>
<td>3</td>
</tr>
</tbody>
</table>

**Option 5: Education Degree in Early Childhood plus Early Childhood, English as a Second Language, and Bilingual Certification**
Early Childhood Seminar for Student Teaching  
CURRINS 601  3
Student Teaching in Early Childhood  
CURRINS 640  6
Student Teaching in Bilingual Education  
CURRINS 442  3
Student Teaching in English as a Second Language: Minor  
CURRINS 443  3

### Additional Required Courses:
The following courses may be taken any semester the prerequisites are met.

#### Arts (3 credits)
Choose a course in Art, Music, Theatre, Dance, or Film from this GER list:
[www.uwm.edu/academics/ger-courses.cfm](http://www.uwm.edu/academics/ger-courses.cfm)

- Art Elective (GER-A)  3

#### English and Humanities (9-12 credits)
COMMUN 301 Public Speaking (with a C or better)  3
- Literature GER-H (See your advisor for a list of approved options.)  3
ENGLISH 201 Strategies for Academic Writing  3

Or
ENGLISH 205 Business Writing  3

#### Foreign Language (0-6 credits)
Note: American Sign Language is accepted as a foreign language. See your advisor if English is not your first language. Not required if first semester as a freshman was prior to September 1999. Complete one:
- 2 consecutive semesters of college instruction in a single foreign language (at least six credits) with passing grades;
- 2 consecutive years of high school instruction in a single foreign language with passing grades; or
- Language proficiency on approved exam.

#### Mathematics (3 credits)
MATH 176 Mathematical Explorations for Elementary Teachers II (with a C or better)  3

#### Natural Sciences (9 credits)
Choose a GER-NS course from this list:
[www.uwm.edu/academics/ger-courses.cfm](http://www.uwm.edu/academics/ger-courses.cfm)

- Introduction to Conservation and Environmental Science  3
- Physical Science Elective (GER-NS: Chem or Phys)  3

#### Social Sciences (6 credits)
HIST 151 American History, 1607 â€“ 1877  3
OR
HIST 152 American History, 1877 - present  3
OR
POL SCI 104 Introduction to American Government and Politics  3
OR
POL SCI 105 State Politics  3

- Social Sciences Elective (GER-SS) (See your advisor for options.)  3

#### Cultural Diversity and Act 31 Requirements (3 credits)
Choose one:
- ANTHRO 213 American Indian Peoples of Wisconsin  3
- ENGLISH 276 Intro to Amer. Indian Lit: Lit, Hist, & Sovereignty of Upper Midwest Indians  3
- AIS 203 Western Great Lakes American Indian Community Life of the Past  3
- HIST 263 North American Indian History Since 1887  3

University GER requirements were recently updated to include Oral and Written Communication and Quantitative Literacy Competencies. See your advisor to find out which set of requirements you must fulfill.

### Professional Education Courses:
CURRINS 301  Infants and Toddlers: Curriculum and Teaching  3
CURRINS 330  Teaching of Mathematics: Early Childhood  3
CURRINS 323  Teaching of Social Studies in Early Childhood  3
CURRINS 505  Collaborative Relationships with Families, Schools, and Communities  3
CURRINS 511  Curriculum and Guidance for Social Emotional Learning  3
CURRINS 512  Reflective Practice in Teaching and Learning  3
CURRINS 651  Literature for the Young Child  3
ART ED 130  Art and Visual Learning in Elementary School  3
MUS ED 260  Making Music Connections with Children  3
ED POL 375  Cultural Foundations of Education  3
ED PSY 330  Introduction to Learning and Development  3
ED PSY 575  Infant/Early Childhood Assessment  3
EXCEDUC 630  Survey of EC Intervention: Young Children with Special Needs, Families  3
A C or better must be earned in all professional education courses and sequenced Curr Ins courses.

Benchmarks
Students must meet benchmarks at 30, 60, and 85 credits and prior to student teaching. Benchmarks are monitored through tracking systems and advising. A student will be restricted from moving forward in the program if the bold benchmarks are not completed.

30 Credit Benchmarks
Reviewed with your advisor the semester after completion of 30 credits
- Mandatory meeting with your advisor
- Completion of English 102 and Math 175 with a C or better
- Minimum cumulative GPA of 2.25 on all UWM and transfer courses

Certification majors only:
- Passing scores on all three sections of the Praxis I posted on transcript

60 Credit Benchmarks
Reviewed with your advisor the semester after completion of 60 credits
- Mandatory meeting with your advisor
- Minimum cumulative GPA of 2.5 on all UWM and transfer courses

Certification majors only:
- Registered for the appropriate Praxis II exam
  - Elementary Education Content Knowledge Exam #014
  - Teaching English to Speakers of Other Languages #0361

85 Credit Benchmarks
Reviewed with your advisor the semester after completion of 85 credits
- Mandatory meeting with your advisor
- Minimum cumulative GPA of 2.5 on all UWM and transfer courses
- Complete and sign form to declare intention: Education Degree in Early Childhood only or degree with certification in Early Childhood, ESL, and/or Bilingual

Student Teaching Benchmarks (Certification Majors only)
- Mandatory attendance at Pre-Student Teaching Orientation
- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Removal of all F or I (Incomplete) grades in courses
- C or better in professional education and Curr Ins sequenced courses
- Successfully pass the appropriate Praxis II exam(s)

Elementary Education Content Knowledge Exam #014
Teaching English to Speakers of Other Languages #0361

- Successfully pass the Massachusetts Test for Educator Licensure (MTEL) Reading Test

Graduation Benchmarks (must be met to be approved for graduation)
Reviewed during the student teaching semester

- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Satisfactory completion of a minimum of 120 credits
- Completion of the last year of coursework (30 credits) in residence at UWM

Certification majors only:

- Completion of Teacher Performance Assessment

Middle Childhood through Early Adolescence Program Requirements

- PROGRAM DESCRIPTION

The Middle Childhood through Early Adolescence Program (MCEA) is designed for students seeking to teach at the middle childhood-early adolescence level (ages 6-12 or -13, grades 1-8). This program prepares students to work in urban settings and takes place in close partnership with local school districts. The UWM School of Education's urban mission is upheld in the MCEA program's commitment to preparing preservice teachers to meet the needs of diverse populations. Students are admitted into the MCEA program upon admission to the University, and it is possible to complete the program in four years. Students who satisfactorily meet program requirements will be recommended for student teaching. Upon successful completion of all student teaching requirements, including several state-required assessments, students will be licensed to teach grades 1-8. After completion of the MCEA program, students may opt to pursue an add-on certification in Exceptional Education, English as a Second Language, or Bilingual Education by completing streamlined course paths that include an additional student teaching requirement.

Students completing the Middle Childhood through Early Adolescence program will receive a Bachelor’s degree in Education, a Cultures and Communities certificate, and endorsement to be licensed to teach children in grades one through eight in the State of Wisconsin.

ADDITIONAL PROGRAM OPTIONS

Add-On Teacher Certifications. Following completion of the MCEA program, students may opt to add a certification in English as a Second Language (ESL), Bilingual Education, or World Languages by completing additional coursework and student teaching requirements.

Special Education Certification. Students who successfully complete the MCEA Program may seek dual licensure in special education, which requires a fifth year of school. Credits in the fifth year may be integrated into a Master's Program in Exceptional Education provided the student is admitted into the Graduate Program at UWM.

PROGRAM REQUIREMENTS

A C or better is required in all coursework. No courses may be taken for credit/no credit. Students must take at least one Cultures and Communities (C&C) course that has a “service learning” component. Note: All courses numbered 150
meet this requirement if taken during the spring or fall semesters.

**PREPROFESSIONAL COURSEWORK**

<table>
<thead>
<tr>
<th>Arts</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 260 Storytelling (only subtitles that meet Cultures and Communities Area IV will be accepted (GER-A CC-IV)</td>
<td>3</td>
</tr>
</tbody>
</table>

**English**

| ENGLISH 102 College Writing and Research OR a 4 or higher on the English Placement Test | 0-3     |
| ENGLISH 201 Strategies for Academic Writing                                         | 3       |

**Foreign Language**

Note: Not required if first semester as a freshman was prior to September 1999. American Sign Language is accepted as a foreign language. See your advisor if English is not your first language. Complete one:

- Â‘Â‘2 consecutive years of high school instruction in a single foreign language
- Â‘Â‘2 consecutive semesters of college instruction in a single foreign language At least 6
- Â‘Â‘Language proficiency on approved exam

**Humanities**

| CURRINS 233 Introduction to Children’s and Young Adult Literature (GER-H) | 3       |
| Humanities elective (GER-H) OR English elective (English minors only”see minor) | 3       |

**Mathematics**

| MATH 175 Mathematical Explorations for Elementary Teachers I | 3       |
| MATH 176 Mathematical Explorations for Elementary Teachers II | 3       |

**Natural Sciences**

| Physical science elective (Physics/Chem)”must include a lab | 3+      |
| CES 210 Introduction to Conservation and Environmental Science | 3       |

**Social Sciences** (Courses that appear in **bold** are highly recommended.)

| HIST 151 American History 1607-1877 | 3       |
| OR HIST 152 American History 1877 â€“ present | 3       |
| POL SCI 104 Introduction to American Government and Politics | 3       |
| OR POL SCI 105 State Politics | 3       |

Cultural Diversity and Act 31 â€“ Choose one:

| ANTHRO 213 American Indian Peoples of Wisconsin | 3       |
| ENGLISH 276 Intro to American Indian Lit: Lit, History, & Sovereignty of Upper Midwest Indians | 3       |
| AIS 203 Western Great Lakes American Indian Community Life of the Past | 3       |
| HIST 263 North American Indian History Sicne 1887 | 3       |

University GER requirements were recently updated to include Oral and Written Communication and Quantitative Literacy Competencies. See your advisor to find out which set of requirements you must fulfill.

**Middle Childhood through Early Adolescence courses**
Gateway Check at 40 Credits Completed

- Mandatory meeting with advisor in the semester following 40-credit semester;
- Minimum cumulative GPA of 2.5 in required program courses (all courses listed on the program sheet);
- Passing scores on the Praxis I posted on transcript;
- Completion of dispositions and field evaluation from CurrIns 333;
- Completion of Cultures and Communities requirements; and
- Completion of Math 175 and English 102 (or score of 4 or higher on English placement test).

PROFESSIONAL COURSEWORK

**Semester 1**

- CURRINS 306 MCEA Clinical Experience, Grades 1-3 1
- CURRINS 536 Literacy 1: Assessing and Teaching Early Literacy 3
- CURRINS 556 Professional Seminar 1: Foundations of Curriculum and Instruction 3
- ED PSY 325 Practice of Classroom Assessment 2
- EXCEDUC 605 Child, Learner, Disability 3

**Semester 2**

- CURRINS 307 MCEA Clinical Experience II, Grades 4-8 1
- CURRINS 537 Literacy 2: Assessing and Teaching Literacy through Early Adolescence 3
- CURRINS 541 Principles and Methods of Teaching ESL 3
- CURRINS 557 Professional Seminar 2: Classroom Management Theory, Practice, and Context 3
  - Successfully pass the Praxis II by the end of semester 2
  - Successfully pass the WI Foundations of Reading Test after completion of Curr Ins 536 and 537

**Semester 3**

- CURRINS 406 Advanced MCEA Clinical Experience 4
- CURRINS 538 Literacy 3: Introduction to New Literacies 3
- CURRINS 558 Professional Seminar 3: Building Learning Communities 3

**Any Semester Prior to Student Teaching**

- CURRINS 406 Advanced MCEA Clinical Experience 4
- CURRINS 538 Literacy 3: Introduction to New Literacies 3
- CURRINS 558 Professional Seminar 3: Building Learning Communities 3
- CURRINS 406 Advanced MCEA Clinical Experience 4

Gateway Check Prior to Approval to Student Teach

- Minimum cumulative GPA of 2.75 in required courses (all courses listed on program sheet);
- Removal of all F or I (incomplete) grades in courses;
- C or better in required program courses (all courses listed on the program sheet);
- Passing scores on the Wisconsin Foundations of Reading Test (after semester 2);
- Completion of practice Teacher Performance Assessment (edTPA);
- Passing scores on the Praxis II posted on transcript (take during semester 2); and
- Completion of disposition and field evaluation in CurrIns 406.

A mandatory meeting with your academic advisor will be required if you have not met the above Gateway Checks.
Additional Requirements for Graduation and Certification

- Minimum cumulative GPA of 2.75 in all UWM and transfer courses;
- Satisfactory completion of a minimum 128 credits;
- Completion of the last year of coursework (30 credits) in residence at UWM; and
- Completion of edTPA.

MINOR REQUIREMENTS

Select one minor from each group. Each minor requires a minimum of 18 credits. Pre-professional coursework can be used to meet minor requirements. All minor courses must be completed with a C or better.

Group A
Select one:
- English/Language Arts
- Social Studies

Group B
Select one:
- Math
- Natural Science

Social Studies (Courses that appear in bold are highly recommended.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 151</td>
<td>American History 1607-1877</td>
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<tr>
<td>OR</td>
<td>HIST 152</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>American History 1877 â€“ present</td>
<td></td>
</tr>
<tr>
<td>POL SCI 104</td>
<td>Introduction to American Government and Politics</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>POL SCI 105</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>State Politics</td>
<td></td>
</tr>
<tr>
<td>HIST 294</td>
<td>Seminar on Historical Method: Research Techniques</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 110</td>
<td>The World: Peoples and Regions</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 131</td>
<td>World History to 1500</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Roman Republic and Empire</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 150</td>
<td>Multicultural America</td>
<td>3</td>
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<tr>
<td>URB PLN 350</td>
<td>Social Justice, Urban Planning, and the New Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>URB STD 150</td>
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<tr>
<td>WMNS 150</td>
<td>Multicultural America</td>
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</table>

English/Language Arts

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 233</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>ENGLISH 432</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>The Rhetoric of Argument</td>
<td></td>
</tr>
<tr>
<td>CURRINS 233</td>
<td>Introduction to Children’s and Young Adult Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 445</td>
<td>The Composing Process</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 215</td>
<td>Introduction to English Studies</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP LIT 208</td>
<td>World Literature in Translation: The 17th to the 21st Century</td>
<td>3</td>
</tr>
<tr>
<td>COMP LIT 230</td>
<td>Literature and Society</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>--------------</td>
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<tr>
<td>COMP LIT 231</td>
<td>Literature and Religion</td>
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</tr>
<tr>
<td>COMP LIT 232</td>
<td>Literature and Politics</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 192</td>
<td>First Year Seminar: Multicultural Milwaukee</td>
<td>3</td>
</tr>
<tr>
<td>JEWISH 261</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
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<tr>
<td>MATH 175</td>
<td>Mathematical Explorations for Elementary Teachers I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 176</td>
<td>Mathematical Explorations for Elementary Teachers II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 275</td>
<td>Problem Solving for Elementary Education Majors</td>
<td>3</td>
</tr>
<tr>
<td>MATH 277</td>
<td>Geometry for Elementary Education Majors</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
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<td></td>
</tr>
<tr>
<td>MATH 205</td>
<td>Introductory Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 276</td>
<td>Algebraic Structures for Elementary Education Majors</td>
<td>3</td>
</tr>
<tr>
<td>Choose one:</td>
<td></td>
<td></td>
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<tr>
<td>MATH/MTHSTAT</td>
<td>Discrete Probability and Statistics for Elementary Education Majors</td>
<td>3</td>
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<tr>
<td>278</td>
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<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
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<tr>
<td><strong>Science</strong></td>
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<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
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<tr>
<td><strong>Physical Science</strong></td>
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<tr>
<td>Choose one (Courses that appear in <strong>bold</strong> are highly recommended.):</td>
<td></td>
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<tr>
<td>PHYSICS 185</td>
<td><strong>Basic Physics for Teachers</strong></td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 107</td>
<td>Physics in Everyday Life</td>
<td>3</td>
</tr>
<tr>
<td>And</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSICS 108</td>
<td>Laboratory for Physics in Everyday Life</td>
<td>1</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>And</td>
<td></td>
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<tr>
<td>PHYSICS 121</td>
<td>General Physics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Chemical Science</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
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<tr>
<td>CHEM 106</td>
<td>Chemistry in the World Around Us--Chemistry for the Non Science Major</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 185</td>
<td>Basic Chemistry for Teachers</td>
<td>3</td>
</tr>
<tr>
<td><strong>Earth Science</strong></td>
<td></td>
<td></td>
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<tr>
<td>Choose one (Courses that appear in <strong>bold</strong> are highly recommended.):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEO SCI 185</td>
<td><strong>Introductory Earth Science for Teachers</strong></td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth (Do not take if you have taken Geo Sci 185.)</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td><strong>Biology</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choose one (Courses that appear in <strong>bold</strong> are highly recommended.):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIO SCI 185</td>
<td><strong>Introductory Biology for Teachers</strong></td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 102</td>
<td>Elements of Biology (Do not take if you have taken Bio Sci 185.)</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Science I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Science electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choose courses above or from the list below to total 18 credits in the science minor (Courses that appear in <strong>bold</strong> are highly recommended.):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTRON 185</td>
<td><strong>Astronomy for Pre-Education Majors</strong></td>
<td>3</td>
</tr>
<tr>
<td>ASTRON 103</td>
<td>Survey of Astronomy</td>
<td>4</td>
</tr>
<tr>
<td>And</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTRON 104</td>
<td>Astronomy Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
Mathematics Education, Early Adolescence – Adolescence. The Early Adolescence through Adolescence (EA-A) Program in Mathematics is available for students who plan to teach mathematics to children from age 10 to age 21, in 6th through 12th grade.

Mathematics Program students gain real world experience in the classroom through student teaching at area schools. Students who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching mathematics subject areas in those grades.

Major. A minimum of 34 credits in mathematics at the calculus level and above is required. Consult a mathematics education advisor in Curriculum and Instruction for changes in mathematics major based on changes in requirements due to course revisions and prerequisites in mathematics.

To be accepted as a teaching major in mathematics, a student must complete Math 231, 232, 233, or an equivalent three-semester sequence of calculus and analytical geometry. The student also must complete Math 234 or an equivalent one-semester course in linear algebra and differential equations. A minimum grade point average of 2.75 must be maintained in the above courses and all courses numbered 300 or above for admission to the School of Education.

Faculty Advisor: Professor Michael Steele, steelem@uwm.edu.

English Education Program Requirements: Early Adolescence - Adolescence

Students who successfully complete the English Education program are eligible for a State of Wisconsin teaching certificate to teach English in grades 6-12.

PROGRAM ADMISSION REQUIREMENTS

Application to the English Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: www4.uwm.edu/soe/student_services/oas/advising.cfm.

â€¢ Praxis I: Pre-Professional Skills Test with passing scores in reading, writing and math. When registering for the test, indicate UWM as a score recipient (#1473). Passing scores are: Reading 175,
Writing 174, Math 173. If you are having difficulty passing any portion of the Praxis I, please contact your academic advisor prior to taking the test a third time.

â€¢ **English Composition**: Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.

â€¢ **Mathematics Skills**: Achieve a placement level of 30 or higher on the Math Placement Test, or complete Math 105, 106, 175, or an equivalent with a grade of C or better.

â€¢ **Completion of CurrIns 300, Introduction to Teaching**, with a grade of C or better.

â€¢ **Completion of Commun 103** with a grade of C or better. Note: Completion of Commun 103 will also fulfill part of your Humanities requirement.

â€¢ **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.

â€¢ **A 2.75 cumulative GPA** in all English content courses.

â€¢ **A minimum of 58 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

â€¢ **Meeting with faculty advisor** to review admission application. Faculty signature required on application.

**GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS**

Completion of the coursework in this section will meet the general education requirements (GER) of the University. These requirements include Oral and Written Communication Competency, Quantitative Literacy Competency, Foreign Language, and Distribution Requirements. Please consult with the University GER requirements. Some programs specify courses to meet the University GER; please contact your academic advisor for information on required courses.

**STATUTORY REQUIREMENTS**

**Act 31 Requirement.** A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses or a one-day seminar.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 276</td>
<td>Introduction to American Indian Literature: Literature, History, &amp; Sovereignty of Upper Midwest Indians</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 203</td>
<td>Western Great Lakes American Indian Community Life of the Past</td>
<td>3</td>
</tr>
<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One-day Seminar Call School of Education Outreach (414) 229-4728</td>
<td></td>
</tr>
</tbody>
</table>

**Non-Western History or Contemporary Culture**

Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.). **Suggested:** Anthro 213, English 276, Ethnic 203, or Hist 263.

**ELECTIVE COURSE**

Select an elective to ensure 128 credits at the time of graduation.

**ENGLISH CONTENT AREA â€“ 51 credits** (including 8 GERs from Core Curriculum)
ENGLISH 212  Grammar and Usage  
ENGLISH 215  Introduction to English Studies (GER)  

Select one literature course (3 cr. each) from the following:  
COMPLIT 207 (GER), COMPLIT 208 (GER), COMPLIT 230 (GER), ENGLISH 221-225 (all GER),  
or ENGLISH 269-281 (GER 276, 277)  

ENGLISH 233  Introduction to Creative Writing  

Select one of the following courses:  
ENGLISH 201  Strategies for Academic Writing  
OR  
ENGLISH 208  Writing and Research  

**Advanced Writing Courses â€“ 6 cr.**  
ENGLISH 430  Advanced Writing Workshop  

Select one course from the following:  
CURRINS 547  Curricular Applications of the Internet  
ENGLISH 440  Introduction to Peer Tutoring and Practice  
ENGLISH 445  The Composing Process  

**Advanced Linguistic Courses â€“ 6 cr.**  
Select one course from the following:  
ENGLISH 400  Introduction to English Linguistics  
ENGLISH 401  History of English Language  
LINGUIS 350  Introduction to Linguistics  

Select one course from the following:  
ENGLISH 403  Survey of Modern English Grammars  
ENGLISH 404  Language, Power, and Identity  

**Advanced Literature Courses â€“ 24 cr.**  

**Survey I: Periodization/Historical**  
Select one course from the following:  
ENGLISH 301  Survey of English Literature, Beginnings to 1500  
ENGLISH 302  Survey of English Literature, 1500-1660  
ENGLISH 303  Survey of English Literature, 1660-1798  
ENGLISH 304  Survey of English Literature, 1798-1900  
ENGLISH 305  Survey of English Literature, 1900 to the Present  
ENGLISH 306  Irish Literature  
ENGLISH 307  American Literature to 1865  
ENGLISH 308  American Literature, 1865-1965  
ENGLISH 309  Contemporary American Literature  

**Survey II: Literature and Culture**  
Select one course from the following:  
ENGLISH 332  Gay and Lesbian Literature  
ENGLISH 372  Survey of American Indian Literature (GER)  
ENGLISH 373  Survey of Ethnic Minority Literature (GER)  
ENGLISH 374  Survey of U.S. Latino/a Literature  
ENGLISH 375  Survey of Asian-American Literature  
ENGLISH 376  Survey of African-American Literature to 1930  
ENGLISH 377  Survey of African-American Literature, 1930-Present  
ENGLISH 379  LGBT Literature  
ENGLISH 381  World Literatures Written in English  
ENGLISH 463  Writers in African-American Literature  

**Genre**  
Select one course from the following:  
ENGLISH 326  The Development of the Novel  
ENGLISH 327  The Development of the Short Story  
ENGLISH 328  Forms of Experimental Literature  
ENGLISH 329  Film and Literature
ENGLISH 341  The Development of Drama  3
ENGLISH 361  The Development of Poetry  3

Young Adult Literature
CURRINS 650  Reading Interests of Adolescents  3

Literary Critical Theory
Select one course from the following:
ENGLISH 378  Survey of Literary and Cultural Theory  3
ENGLISH 545  Studies in the History of Literary Criticism  3
ENGLISH 547  Studies in Theory and Criticism  3
ENGLISH 626  Seminar in Critical Theory  3

Focus
Select one course from the following:
ENGLISH 451  Chaucer  3
ENGLISH 452  Shakespeare  3
ENGLISH 454  Milton  3
ENGLISH 456  Writers in English Literature, 1500-1660  3
ENGLISH 457  Writers in English Literature, 1660-1798  3
ENGLISH 458  Writers in English Literature, 1798-1900  3
ENGLISH 459  Writers in English Literature, 1900 to the Present  3
ENGLISH 460  Writers in American Literature, 1800-1900  3
ENGLISH 461  Writers in American Literature, 1900 to the Present  3
ENGLISH 464  Women Writers  3

Capstone Course I: Historical Concentration
Select one of the following:
ENGLISH 500  Studies in Medieval and Early Modern Literature  3
ENGLISH 501  Studies in Literature, 1500-1600  3
ENGLISH 504  Studies in Literature, 1660-1800  3
ENGLISH 505  Studies in Literature, 1800-1900  3
ENGLISH 507  Studies in Literature, 1900 to the Present (GER)  3
ENGLISH 530  Studies in Shakespeare  3
ENGLISH 621  Seminar in the Literature of England  3
ENGLISH 623  Seminar in American Literature  3
ENGLISH 624  Seminar in Modern Literature  3
ENGLISH 625  Seminar in Literary History  3
ENGLISH 685  Honors Seminar (GER)  3

Capstone Course II: Literature and Culture
Select one of the following:
ENGLISH 514  Literature in Context  3
ENGLISH 515  Literature and the Other Arts  3
ENGLISH 517  Studies in African-American Literature  3
ENGLISH 518  Studies in Irish Literature  3
ENGLISH 519  Studies in Irish-American Literature  3
ENGLISH 520  Studies in American Indian Literature  3
ENGLISH 521  Studies in Ethnic Minority Literature  3
ENGLISH 522  Studies in World Literature Written in English  3
ENGLISH 523  Studies in U.S. Latino/a Literature  3
ENGLISH 524  Studies in Asian-American Literature  3
ENGLISH 627  Seminar in Literature and Culture  3
ENGLISH 628  Seminar in Literature by Women  3
ENGLISH 629  Seminar in Literature and Sexuality  3
ENGLISH 630  Seminar in Literature and Other Arts  3
ENGLISH 631  Seminar in African American Literature  3
ENGLISH 632  Seminar in American Indian Literature  3
PROFESSIONAL EDUCATION REQUIREMENTS: 40-42 cr.

The following courses may be taken prior to admission to the School of Education:

Select one of the following two courses (3 cr. each):
ED POL 375    Cultural Foundations of Education
ED POL 530    Urban Education Foundation
ED PSY 330    Introduction to Learning Development
CURRINS 510   Cooperative Strategies for Pre- and Early Adolescents (English-only spring section)  
CURRINS 657   Approaches to Teaching and Assessing Texts in the Secondary School (offered only during the spring semester. Pre-req for Curr Ins 658. Take 657 and 658 in sequential semesters).
CURRINS 659   Teaching and Assessing Grammar to Enrich Writing

The following courses may be taken only after admission to the School of Education:

EXCEDUC 531    Inclusion for Secondary Educators
CURRINS 545    Reading in the Content Area: Middle, Junior, Senior

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Field Experience website at www4.uwm.edu/soe/academics/clinical-experiences.cfm.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: English Language, Literature, Composition: Content Knowledge #10041;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Field Experience Office;
- Criminal Background Check submitted to the Field Experience Office; and
- Completion of CurrIns 316 (English), 415 (English), 510 (English), 650, 657, 658, and 659 with a C+ or better.

Taken as a block in the fall of the final academic year:

CURRINS 658    Teaching and Assessing of English (prerequisite Curr Ins 657)
CURRINS 316    Fieldwork in Secondary Reading in the Content Areas, Grades 6-12
CURRINS 415    Student Teaching in Grades 7 & 8
CURRINS 510    Cooperative Strategies for Pre- and Early Adolescents (English-only fall section)

Taken in the spring semester of the final academic year:
ADDITIONAL REQUIREMENTS FOR GRADUATION

• Completion of CurrIns 452 with a C+ or better;

• Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer course work that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;

• Satisfactory completion of a minimum 128 credits; and

• Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.

Science Education Program Requirements: Early Adolescence - Adolescence

Students who successfully complete the science program are eligible for a State of Wisconsin teaching certificate to teach science in grades 6 to 12.

PROGRAM ADMISSION REQUIREMENTS

Application to the Science Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: www4.uwm.edu/soe/student_services/oas/advising.cfm.

• **Praxis I: Pre-Professional Skills Test** with passing scores in reading, writing and math. When registering for the test, indicate UWM as a score recipient (#1473). Passing scores are: Reading 175, Writing 174, Math 173. If you are having difficulty passing any portion of the Praxis I, please contact your academic advisor prior to taking the test a third time.

• **English Composition**: Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.

• **Mathematics Skills**: Achieve a placement level of 30 or higher on the Math Placement Test, or complete Math 105, 106, 175, or an equivalent with a grade of C or better. **Note**: Math 105 or 106 are recommended as they also meet core curriculum requirements.

• **Completion of CurrIns 300, Introduction to Teaching**, with a grade of C or better.

• **Completion of Commun 103** with a grade of C or better.

• **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.

• **A 2.75 cumulative GPA** in all science content courses.

• **A minimum of 58 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

• **Meeting with faculty advisor** to review admission application. Faculty signature required on application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS
Completion of the coursework in this section will meet the general education requirements (GER) of the University. These requirements include Oral and Written Communication Competency, Quantitative Literacy Competency, Foreign Language, and Distribution Requirements. Please consult with the University GER requirements. Some programs specify courses to meet the University GER; please contact your academic advisor for information on required courses.

**STATUTORY REQUIREMENTS**

**Act 31 Requirement.** A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses or a one-day seminar.

- ANTHRO 213 American Indian Peoples of Wisconsin 3
- ENGLISH 276 Introduction to American Indian Literature: Literature, History, and Sovereignty of Upper Midwest Indians 3
- ETHNIC 203 Western Great Lakes American Indian Community Life of the Past 3
- HIST 263 North American Indian History Since 1887 3
- One-day Seminar Call School of Education Outreach (414) 229-4728.

**Non-Western History or Contemporary Culture**

Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.). Suggested: Anthro 213, English 276, Ethnic 203, or Hist 623

**Conservation of Natural Resources** Three credits required. Select one of the following:
- CES 471 Principles of Natural Resource Management 3
- CES 210 Introduction to Conservation and Environmental Science 3
- GEOG 350 Conservation of Natural Resources 3

**History and Philosophy of Science** Two to three credits required. Select one of the following (each course is 3 cr.):
- HIST 226, 227, 332; PHILOS 213, 324, 335, 338, 520; BIO SCI 220; or CHEM 502

**Required Math Elective Courses**
- MATH Elective 3
- MATH Elective 3

**ELECTIVE COURSES**

Select electives to ensure 128 credits at the time of graduation. Two must be in mathematics.

**SCIENCE CONTENT AREA**

The selection of at least one major and one minor (highly suggested) should be made in consultation with the faculty advisor prior to applying for admission to the School of Education.

**Majors: Must select one.**
- Biology
- Broad Field Science (See below.)
- Chemistry
- Earth and Space Science
- Environmental Studies
- Life and Environmental Science
- Physical Science
- Physics

**Minors**
- Biology
Contact your faculty advisor for the "MACSTEP Program Packet" for course lists and specific details regarding the majors and minors.

The Broad Field Science major consists of 54 credits in science, including:

- 14 credits in each of two of the following sciences: biology, chemistry, earth, and physics;
- 8 credits in each of the remaining science areas; and
- Electives to be selected in consultation with a faculty advisor.

**Note:** Broad Field Science majors can earn a certification in another subject (biology, chemistry, physics, and earth and space science) if they have 15 credits in that subject area.

**PROFESSIONAL EDUCATION REQUIREMENTS**

**MACSTEP Sequence: Milwaukee Area Collaborative Secondary Science (and Math) Teachers Education Program.** It is important to meet with your faculty advisor in planning this sequence. All of the MACSTEP courses require formal admission to the School of Education.

**Summer**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre- and Early Adolescents</td>
<td>2</td>
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<tr>
<td>CURRINS 518</td>
<td>Science Methods I</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Content Area</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 629</td>
<td>Change and Change Strategies in Education</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 541</td>
<td>Alternative Assessment in Science and Math</td>
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**Fall**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 316</td>
<td>Field Work in Secondary Reading in Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 510</td>
<td>Cooperative Strategies for Pre- and Early Adolescents</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 516</td>
<td>Field Experience/Student Teaching in Middle School</td>
<td>2</td>
</tr>
<tr>
<td>CURRINS 519</td>
<td>Science Methods II</td>
<td>6</td>
</tr>
<tr>
<td>ED PSY 542</td>
<td>Alternative Assessment in Science and Math II</td>
<td>1</td>
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<tr>
<td>EXCEDUC 537</td>
<td>Inclusion for Secondary Science Educators</td>
<td>1</td>
</tr>
</tbody>
</table>

**Student Teaching.** Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Field Experience website at [www4.uwm.edu/soe/academics/clinical-experiences.cfm](http://www4.uwm.edu/soe/academics/clinical-experiences.cfm).

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your science content area and professional education courses;
• Passing scores reflected on your transcript for the Praxis II exam: General Science: Content Knowledge #10435;

• Removal of all F or I (incompletes) grades;

• TB test results submitted to the Field Experience Office; and

• Criminal Background Check submitted to the Field Experience Office.

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CURRINS 427</td>
<td>Student Teaching in Secondary Science</td>
<td>5-6</td>
</tr>
<tr>
<td>CURRINS 427</td>
<td>Student Teaching in Secondary Science</td>
<td>5-6</td>
</tr>
<tr>
<td>ED PSY 543</td>
<td>Alternative Assessment in Science and Math III</td>
<td>1</td>
</tr>
<tr>
<td>EXCEDIC 537</td>
<td>Inclusion for Secondary Science Educators</td>
<td>2</td>
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</table>

**ADDITIONAL REQUIREMENTS FOR GRADUATION**

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer course work that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;

- Satisfactory completion of a minimum 128 credits; and

- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee

**Social Studies Program Requirements: Early Adolescence - Adolescence**

Students who successfully complete the social studies program are eligible for a State of Wisconsin teaching certificate to teach social studies in grades 6-12.

**PROGRAM ADMISSION REQUIREMENTS**

Application to the Social Studies program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: [www4.uwm.edu/soe/student_services/oas/advising.cfm](http://www4.uwm.edu/soe/student_services/oas/advising.cfm).

- **Praxis I: Pre-Professional Skills Test** with passing scores in reading, writing and math. When registering for the test, indicate UWM as a score recipient (#1473). Passing scores are: Reading 175, Writing 174, Math 173. If you are having difficulty passing any portion of the Praxis I, please contact your academic advisor prior to taking the test a third time.

- **English Composition**: Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.

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- **Completion of Curr Ins 300, Introduction to Teaching**, with a grade of C or better.

- **Completion of Commun 101 or 103** with a grade of C or better.

- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
• A 2.75 cumulative GPA in all economics, geography, history, psychology, political science, and sociology courses.

• A minimum of 58 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

• Meeting with faculty advisor to review admission application. Faculty signature required on application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS

Completion of the coursework in this section will meet the general education requirements (GER) of the University. These requirements include Oral and Written Communication Competency, Quantitative Literacy Competency, Foreign Language, and Distribution Requirements. Please consult with the University GER requirements. Some programs specify courses to meet the University GER; please contact your academic advisor for information on required courses.

STATUTORY REQUIREMENTS

Act 31 Requirement. A component of the Human Relations Requirement for Teacher Certification must be met by completing one of the following courses or a one-day seminar.

ANTHRO 213 American Indian Peoples of Wisconsin 3
ENGLISH 276 Introduction to American Indian Literature: Literature, History, & Sovereignty of Upper Midwest Indians 3
ETHNIC 203 Western Great Lakes American Indian Community Life of the Past 3
HIST 263 North American Indian History Since 1887 3
One-day Seminar Call School of Education Outreach (414) 229-4728.

Non-Western History or Contemporary Culture
Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.). Suggested: ANTHRO 213, ENGLISH 276, ETHNIC 203, or HIST 263.

Conservation of Natural Resources. Three credits required. Select from the following:

CES 210 Introduction to Conservation and Environmental Science 3
GEOG 350 Conservation of Natural Resources 3

Note: Other statutory requirements are met through other program experiences.

Prerequisite Courses
One of the following courses is required to meet the prerequisite for Curr Ins 313, Teaching Economics in the Social Studies Curriculum.

ECON 100 Introductory Economics 3
ECON 103 Principles of Microeconomics 3
ECON 104 Principles of Macroeconomics 3

Social Studies Content Area

Students must choose Option A or Option B. Fields of study include economics, geography, history, psychology, political science, and sociology. Selection must be made prior to formal admission to the School of Education. See advisor for specific course and distribution requirements for chosen major.

Option A: Includes 36 credits in one social studies field (major) and 22 credits in a second social studies field (minor).

  • ÂŸ Social Studies Major (36 credits). 18 credits must be 300-level or higher.

  • ÂŸ Social Studies Minor (22 credits). Nine credits must be 300-level or higher.

Option B: Includes 36 credits in one social studies field, 12 credits in a second social studies field, and 12 credits in a third social studies field.

  • ÂŸ Social Studies Major (36 credits). 18 credits must be 300-level or higher.

  • ÂŸ Social Studies Area of Concentration (24 credits). 12 credits in two areas. Nine credits of the total 24
credits must be 300-level or higher. Specific course and distribution requirements can be found at

PROFESSIONAL EDUCATION REQUIREMENTS

After admission to the program, the following sequencing of courses is recommended.

First Semester

- CURRINS 310 Curriculum for the Pre- and Early Adolescent 3
- CURRINS 321 Introduction to the Teaching of Social Studies 1
- ED PSY 320 Principles for Classroom Appraisal and Evaluation for Prospective Teachers 2
- ED PSY 330 Introduction to Learning Development 3
- EXCEDUC 531 Inclusion for Secondary Educators 3
- Select one of the following:
  - ED POL 375 Cultural Foundations of Education 3
  - ED POL 530 Urban Education: Foundations 3

Second Semester

- CURRINS 313 Teaching Economics in the Social Studies Curriculum 2
- CURRINS 316 Fieldwork in Secondary Reading in the Content Areas, Grades 6-12 3
- CURRINS 323 Teaching of Social Studies: Secondary 3
- CURRINS 415 Student Teaching in Grades 7 and 8 2
- CURRINS 545 Reading in the Content Area: Middle, Junior, Senior 3

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Field Experience website at www4.uwm.edu/soe/academics/clinical-experiences.cfm.

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- A minimum of 2.75 in all your social studies content area and professional education courses;
- Passing scores reflected on your transcript for the Praxis II exam: Social Studies: Content Knowledge #10081;
- Removal of all F or I (incompletes) grades;
- TB test results submitted to the Field Experience Office; and
- Criminal Background Check submitted to the Field Experience Office.

Spring Semester

- CURRINS 423 Student Teaching in Social Studies 5-6
- CURRINS 423 Student Teaching in Social Studies 5-6
ADDITIONAL REQUIREMENTS FOR GRADUATION

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;

- Satisfactory completion of a minimum 128 credits; and

- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.

Note: Not all courses are offered every semester.

Early Childhood Through Adolescence Level Language Education

The purpose of the Early Childhood Through Adolescence Language Education program is to prepare teachers for working with children from birth to age 21 in the areas of bilingual education, English as a Second Language (ESL), and World Languages. Students who successfully complete the language education program for the ESL or World Languages major are recommended by the Department for licensure and are eligible for the State of Wisconsin Teaching Certificate at the Early Childhood Through Adolescence Level (birth through age 21). Students in Early Childhood (EC), Middle Childhood Through Early Adolescence (MCEA), Early Adolescence Through Adolescence (EAA), and Early Childhood Through Adolescence (ECA) education may complete a minor for certification in bilingual, ESL, or World Languages for certification at the same level as their major certification.

BILINGUAL EDUCATION PROGRAM REQUIREMENTS (Supplemental Certification)

The University of Wisconsin-Milwaukee offers course work for a supplemental certification in Bilingual Education. This minor is designed for individuals who wish to teach in a classroom in which two languages (English and another language) are used for instruction. Students wishing to pursue this certification must be in process of or already have a certification. To obtain a Bilingual Education supplemental certification, students must meet the following requirements.

PROFESSIONAL EDUCATION REQUIREMENTS

CURRENS 503 Assessment Issues in Language Education 3
CURRENS 541 Principles and Methods of Teaching ESL 3
CURRENS 542 History and Politics of Second Language Education 3
CURRENS 543 Developing Biliteracy 3
CURRENS 546 Language, Content, and Comprehensible Input 3
CURRENS 655 Applied Educational Linguistics 3
CURRENS 442 Student Teaching in Bilingual Education 3
CURRENS 445 Seminar in Language Education (Not required for students currently completing a portfolio in their major certification.) 3

Language Proficiency Requirement: Demonstration of language proficiency is required for all prospective language teachers. Submit scores from your language department proficiency test to the academic advisor for languages prior to student teaching. A minimum score of Advanced-Low on the ACTFL OPI or equivalent is required prior to student teaching.

ADDITIONAL REQUIREMENTS FOR CERTIFICATION

- A minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
• Undergraduate students must meet the graduation requirements for their primary certification.

• Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards.

ENGLISH AS A SECOND LANGUAGE PROGRAM REQUIREMENTS

Major to Teach Grades PK-12. A teaching certification in English as a Second Language (ESL) is for those who wish to teach English to non-native speakers.

PROGRAM ADMISSION REQUIREMENTS

Application to the English as a Second Language program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at: www4.uwm.edu/soe/student_services/oas/advising.cfm.

• Praxis I: Pre-Professional Skills Test with passing scores in reading, writing and math. When registering for the test, indicate UWM as a score recipient (#1473). Passing score: Reading 175, Writing, 174, Math 173. If you are having difficulty passing any portion of the Praxis I, please contact your academic advisor prior to taking the test a third time.

• English Composition: Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.

• Mathematics Skills: Achieve a placement level of 30 or higher on the Math Placement Test, or complete Math 105, 106, 175, or an equivalent with a grade of C or better. Note: Math 105 or 106 are recommended as they also meet core curriculum requirements.

• Completion of CurrIns 300, Introduction to Teaching, with a grade of C or better.

• Completion of Commun 101 or 103 with a grade of C or better.

• A 2.5 minimum GPA in all English as a Second Language content courses.

• A minimum of 48 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS

Completion of the coursework in this section will meet the general education requirements (GER) of the University. These requirements include Oral and Written Communication Competency, Quantitative Literacy Competency, Foreign Language, and Distribution Requirements. Please consult with the University GER requirements. Some programs specify courses to meet the University GER; please contact your academic advisor for information on required courses.

PL 34 STATUTORY REQUIREMENTS

Act 31 Requirement. A component of the Human Relations Requirement for Teacher Certification must be met by completing one of the following courses or a one-day seminar.

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<tr>
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<td>Western Great Lakes American Indian Community Life of the Past</td>
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<td>North American Indian History Since 1887</td>
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</tr>
<tr>
<td>One-day</td>
<td>Call School of Education Outreach (414) 229-4728.</td>
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</tbody>
</table>
Seminar

Non-Western History or Contemporary Culture
Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.). Suggested: ANTHRO 213, ENGLISH 276, ETHNIC 203, or HIST 263.

ELECTIVE COURSES

Select electives to ensure 128 credits at the time of graduation.

ENGLISH AS A SECOND LANGUAGE CONTENT AREA - 36 cr. Recommended Sequence:

Select one of the following two courses:

ENGLISH 400 Introduction to English Linguistics 3
LINGUIS 350 Introduction to Linguistics 3
ENGLISH 402 Theories of Language and Literature (writing emphasis) 3
ENGLISH 403 Survey of Modern English Grammar 3
LINGUIS 410 Linguistics and Grammar in ESL Education 3
LINGUIS 420 Introduction to Second Language Acquisition 3

Select one of the following two courses:

ENGLISH 404 Language, Power, and Identity 3
LINGUIS 430 Language and Society 3
ENGLISH 567 Materials for ESL Instruction 3
CURRINS 541 Principles and Methods of Teaching ESL 3
CURRINS 542 History and Politics of Second Language Education 3
CURRINS 543 Developing Biliteracy 3
CURRINS 546 Language, Content, and Comprehensible Input 3
CURRINS 565 Applied Educational Linguistics 3

PROFESSIONAL EDUCATION REQUIREMENTS

A grade of C or better is required for all professional education requirements, including student teaching. Bold designates the preferred course. Prerequisites may be required.

Select one of the following two courses:

ED PSY 330 Introduction to Learning and Development 3
ED PSY 631 Cognition: Learning, Problem Solving, and Thinking 3
ED PSY 640 Human Development: Theory and Research 3

Select one of the following:

EXCEDUC 300 The Exceptional Individual 3
EXCEDUC 531 Inclusion for Secondary Education 3
EXCEDUC 600 Survey of Exceptional Education 3
EXCEDUC 605 Child, Learner, Disabilities 3

Select one of the following three courses:

CURRINS 504 Teaching Reading and Writing in Early Childhood 3
CURRINS 544 Improvement in the Teaching of Reading 3
CURRINS 545 Reading in the Content Areas 3
CURRINS 503 Assessment Issues in Language Education 3

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Field Experience website at www4.uwm.edu/soe/academics/clinical-experiences.cfm.

To be approved for placement, you must meet the following criteria:

• Be admitted to the School of Education;
• Completion of all coursework. An exception to allow a student to take a course concurrently with student teaching requires approval of the student's faculty advisor;

• Cumulative GPA of a minimum 2.5;

• A minimum 2.75 in all your content area and professional education courses;

• Passing scores reflected on your transcript for the Praxis II exam: Teaching English to Speakers of Other Languages: Content Knowledge #20360;

• Removal of all F or I (incompletes) grades; and

• TB test results submitted to the Field Experience Office.

COURRINS 444 Student Teaching in ESL, EC-A 10
COURRINS 445 Seminar in Language Education 3

ADDITIONAL REQUIREMENTS FOR GRADUATION AND CERTIFICATION

• Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.

• Satisfactory completion of a minimum 128 credits.

• Completion of the last year of course work (30 credits) in residence at UW-Milwaukee.

• Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards.

ENGLISH AS A SECOND LANGUAGE PROGRAM REQUIREMENTS

Minor. A teaching certification in English as a Second Language (ESL) is for those who wish to teach English to non-native speakers. Students wishing to pursue a minor in ESL must be in the process of obtaining or already have a certification to teach at the Early Childhood, Early Childhood through Adolescence, Middle Childhood through Early Adolescence, or Early Adolescence through Adolescence level.

ENGLISH AS A SECOND LANGUAGE CONTENT AREA - 18 cr.

COURRINS 503 Assessment Issues in Language Education 3
COURRINS 541 Principles and Methods of Teaching ESL 3
COURRINS 542 History and Politics of Second Language Education 3
COURRINS 543 Developing Biliteracy 3
COURRINS 546 Language, Content, and Comprehensible Input 3
COURRINS 655 Applied Educational Linguistics 3

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Field Experience website at www4.uwm.edu/soe/academics/clinical-experiences.cfm.

To be approved for placement, you must meet the following criteria:
• Be admitted to the School of Education;

• Completion of all coursework. An exception to allow a student to take a course concurrently with student teaching requires approval of the student's faculty advisor;

• Cumulative GPA of a minimum 2.5;

• A minimum of 2.75 in all your content area and professional education courses;

• Passing scores reflected on your transcript for the Praxis II exam: Teaching English to Speakers of Other Languages: Content Knowledge #20360;

• Removal of all F or I (incompletes) grades;

• TB test results submitted to the Field Experience Office; and

• Criminal Background Check submitted to the Field Experience Office.

**CURRENCS 443** Student Teaching in English as a Second Language 3

**CURRENCS 445** Seminar in Language Education (Not required for students who are currently completing a portfolio in their major certification.) 3

**ADDITIONAL REQUIREMENTS FOR CERTIFICATION**

• A minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.

• Undergraduate students must meet the graduation requirements for their primary certification.

• Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards.

**WORLD LANGUAGES PROGRAM REQUIREMENTS - Major to Teach Grades PK-12**

**PROGRAM ADMISSION REQUIREMENTS**

Application to the World Languages program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website at [www4.uwm.edu/soe/student_services/oas/advising.cfm](http://www4.uwm.edu/soe/student_services/oas/advising.cfm).

• **Praxis I**: Pre-Professional Skills Test with passing scores in reading, writing, and math. When registering for the test, indicate UWM as a score recipient (#1473). Passing score: Reading 175, Writing 174, Math 173. If you are having difficulty passing any portion of the Praxis I, please contact your academic advisor prior to taking the test a third time.

• **English Composition**: Achieve a placement level of 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a grade of C or better.

• **Mathematics Skills**: Achieve a placement level of 30 or higher on the Math Placement Test, or complete Math 105, 106, 175, or an equivalent with a grade of C or better. **Note**: Math 105 or 106 are recommended as they also meet core curriculum requirements.

• **Completion of CurrIns 300, Introduction to Teaching**, with a grade of C or better.
• Completion of Commun 101 or 103 with a grade of C or better.

• A 2.5 minimum cumulative GPA in all UWM and transfer courses at the time of admission application.

• A 2.75 cumulative GPA in all language content courses.

• A minimum of 48 credits (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.

GENERAL EDUCATION AND CORE CURRICULUM REQUIREMENTS

Completion of the coursework in this section will meet the general education requirements (GER) of the University.

PL 34 STATUTORY REQUIREMENTS

Act 31 Requirement. A component of the Human Relations Requirement for Teacher Certification must be met by completing one of the following courses or a one-day seminar.

ANTHRO 213 American Indian Peoples of Wisconsin 3
ENGLISH 276 Introduction to American Indian Literature: Literature, History, & Sovereignty of Upper Midwest Indians 3
ETHNIC 203 Western Great Lakes American Indian Community Life of the Past 3
HIST 263 North American Indian History Since 1887 3
One-day Seminar Call School of Education Outreach (414) 229-4728.

Non-Western History or Contemporary Culture

Non-Western History/Contemporary Culture (African, Latin American, Asian, Native American, etc.). Suggested: ANTHRO 213, ENGLISH 276, ETHNIC 203, or HIST 263.

ELECTIVE COURSES

Select electives to ensure 128 credits at the time of graduation.

AMERICAN SIGN LANGUAGE CONTENT AREA

Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

CHINESE CONTENT AREA â€“ 30 cr.

CHINESE 301 Fifth Semester Chinese 3
CHINESE 302 Sixth Semester Chinese 3
CHINESE 401 Seventh Semester Chinese 3
CHINESE 402 Eighth Semester Chinese 3
CHINESE 200 Chinese Calligraphy 3
Select five of the following from at least three different departments:
CHINESE 310 Business Chinese 3
CHINESE 320 Contemporary Chinese Societies Through Film 3
CHINESE 699 Advanced Independent Study 3
COMPLIT 363 Chinese Literature in the Global Context 3
GEOG 332 China: Peoples, Regions, and Development 3
HIST 376 History of Ancient China, Earliest Times to 220 AD 3
HIST 377 Modern China 3
HIST 378 Revolution in China 3
ARTHIST 382 Chinese Art and Architecture 3
ARTHIST 480 Chinese Painting 3

FRENCH CONTENT AREA â€“ 30 cr.

FRENCH 324 Contemporary French Language and Culture 3
FRENCH 325  Intensive Grammar and Usage 3
FRENCH 332  Approaches to Poetry and Fiction 3
FRENCH 392  Phonetics 3
FRENCH 426  Growing Up French 3

Select three of the following:
FRENCH 427  Advanced Written Expression 3
FRENCH 431  Seminar in Literature of the Francophone World 3
FRENCH 432  Topics in French and Francophone Culture 3
FRENCH 433  Topics in French Literature 3
FRENCH 450  Institutions and Culture of Contemporary France 3
FRENCH 451 (351)  Cinema of the French-Speaking World 3
FRENCH 510  Seminar in Masterpieces of Literature Written in French 3
FRENCH 592  Seminar in French Language 3

Select two of the following:
FRENCH 428  Castles, Cathedrals and Common People 3
FRENCH 429  Royalty, Reason and Revolution 3
FRENCH 430  French and Innovation 3

GERMAN CONTENT AREA â€“ 30 cr.

GERMAN 331 (426)  Intermediate German Grammar and Usage 3
GERMAN 332 (326)  Intermediate Conversation and Composition 3
GERMAN 333 (321)  Analysis of German Texts 3
GERMAN 334 (322)  Introduction to German Literature and Culture 3
400-Level or Higher German Literature Elective 3
400-Level or Higher German Literature Elective 3
400-Level or Higher German Literature Elective 3
400-Level or Higher German Literature Elective 3
GERMAN 626 (526)  Advanced German Grammar and Usage 3
GERMAN 671  Seminar on Phonetics 3

HEBREW CONTENT AREA
Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

ITALIAN CONTENT AREA â€“ 30 cr.

ITALIAN 310  Italian Immersion 1
ITALIAN 310  Italian Immersion 1
ITALIAN 310  Italian Immersion 1
ITALIAN 311  Advanced Conversation and Composition* 3
ITALIAN 311  (Change in Topic) 3
ITALIAN 312  Contemporary Italian Language & Culture* 3
ITALIAN 312  (Change in Topic) 3
ITALIAN 321  Introduction to Italian Literature 3
ITALIAN 322  Introduction to the Literary Text 3
ITALIAN 357  Topics in Italian Culture in Translation 3
ITALIAN 457  Topics in Italian Culture in Translation 3

Select one of the following courses:
ITALIAN 670  Studies in Italian Literature 3
ITALIAN 383  Honors Seminar 3

* Retakeable with change in topic.

LATIN CONTENT AREA â€“ 30 cr.

LATIN 103  First Semester Latin 3
LATIN 104  Second Semester Latin 3
LATIN 205  Third Semester Latin 3
LATIN 306  Fourth Semester Latin 3
Select at least 15 credits from a combination of the following courses:

LATIN 501 Readings in Latin Prose* 3
LATIN 502 Readings in Latin Poetry* 3
LATIN 699 Directed Reading* 3

* Retakeable with a change in topic.

RUSSIAN CONTENT AREA
Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

SPANISH CONTENT AREA â€“ 30 cr.

SPANISH 308 (305) Advanced Writing and Reading 3
Select one of the following courses:
SPANISH 318 (311) Advanced Speaking and Listening 3
SPANISH 319 (317) Advanced Speaking and Listening for Heritage Speakers 3
SPANISH 341 Introduction to Hispanic Linguistics 3
SPANISH 350 Introduction to Literary Analysis 3
SPANISH 461 (365) Survey of Hispanic Culture (may be taken twice with a change of topic) 3
Select two of the following courses:
SPANISH 470 Survey of Hispanic Literature 3
SPANISH 472 Survey of Spanish-American Literature 3
SPANISH 474 Survey of Spanish Literature 3
300-Level or Higher Spanish Elective 3

OTHER PROGRAM REQUIREMENTS

Language Proficiency Requirement. A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor in the Department of Curriculum and Instruction.

Immersion Requirement. An immersion experience is required for all prospective language teachers. This requirement must be met by spending a semester or a year in a country where the chosen major language is spoken. Submit documentation of immersion experience to your academic advisor in the Department of Curriculum and Instruction prior to student teaching placement.

PROFESSIONAL EDUCATION REQUIREMENTS

A grade of C or better is required for all professional education requirements including student teaching. Bold designates the preferred course. Prerequisites may be required.

Select one of the following courses:
ED PSY 330 Introduction to Learning and Development 3
ED PSY 631 Cognition: Learning, Problem Solving and Thinking* 3
ED PSY 640 Human Development: Theory and Research* 3
Select one of the following courses:
EXCEDUC 300 The Exceptional Individual 3
EXCEDUC 531 Inclusion for Secondary Education* 3
EXCEDUC 600 Survey for Exceptional Education* 3
EXCEDUC 605 Child, Learner, Disabilities* 3
Select one of the following courses:
CURRINS 503 Assessment Issues in Language Education 3
CURRINS 504 Teaching Reading and Writing 3
CURRINS 542 History and Politics of Second Language Education 3
To be approved for placement, you must meet the following criteria:

• Be admitted to the School of Education;

• Completion of all required coursework;

• Cumulative GPA of a minimum 2.5;

• A minimum of 2.75 in all your world languages content area and professional education courses;

• Passing scores reflected on your transcript for the Praxis II exam: #20173 - French, #20181 - German, or #10191 - Spanish. Note: There is currently no PRAXIS II exam for Chinese or Italian. Consult with your faculty advisor;

• Removal of all F or I (incompletes) grades;

• TB test results submitted to the Field Experience Office;

• Criminal Background Check submitted to the Field Experience Office;

• Completion of language proficiency requirement; and

• Completion of immersion requirement.

English as a Second Language Minor. World Language majors wishing to complete an English as a Second Language minor should complete these additional requirements:

CURRINS 541 Principles and Methods of Teaching ESL
CURRINS 444 Student Teaching in ESL-EC-A*

*Taken concurrently with CurrIns 438 for a total of 10 credits. Passing scores on the Praxis II (#20360) prior to student teaching placement.

ADDITIONAL REQUIREMENTS FOR CERTIFICATION

• A minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer course work that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.

• Satisfactory completion of a minimum of 128 credits.
• Completion of the last year of course work (30 credits) in residence at UW-Milwaukee.

• Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards.

WORLD LANGUAGES PROGRAM REQUIREMENTS - MINOR

The World Languages minor is designed for individuals who wish to earn a Wisconsin teaching certification to teach a foreign language. Students wishing to pursue this certification must be in the process of obtaining or already have an initial certification.

AMERICAN SIGN LANGUAGE CONTENT AREA
Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

CHINESE CONTENT AREA â€“ 18 cr.

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<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
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<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
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<td>CHINESE 200</td>
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<td>Advanced Independent Study</td>
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<td>COMPLIT 363</td>
<td>Chinese Literature in the Global Context</td>
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<td>GEOG 332</td>
<td>China: Peoples, Regions, and Development</td>
<td>3</td>
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<td>HIST 376</td>
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<td>Seminar in Literature of the Francophone World</td>
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<tr>
<td>FRENCH 432</td>
<td>Topics in French and Francophone Culture</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 433</td>
<td>Topics in French Literature</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 450</td>
<td>Institutions and Culture of Contemporary France</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World</td>
<td>3</td>
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<tr>
<td>FRENCH 510</td>
<td>Seminar in Masterpieces of Literature Written in French</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 592</td>
<td>Seminar in French Language</td>
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</tr>
</tbody>
</table>

GERMAN CONTENT AREA â€“ 18 cr.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERMAN 331 (426)</td>
<td>Intermediate German Grammar and Usage</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 332 (326)</td>
<td>Intermediate Conversation and Composition</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 333 (321)</td>
<td>Analysis of German Texts</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 334 (322)</td>
<td>Introduction to German Literature and Culture</td>
<td>3</td>
</tr>
</tbody>
</table>
400-Level or Higher German Literature and Culture  3
400-Level or Higher German Culture or Linguistics Elective  3

HEBREW CONTENT AREA
Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

ITALIAN CONTENT AREA â€“ 18 cr.

ITALIAN 310  Italian Immersion  1
ITALIAN 310  Italian Immersion  1
ITALIAN 310  Italian Immersion  1
ITALIAN 311  Advanced Conversation and Composition  3
ITALIAN 312  Contemporary Italian Language & Culture  3
ITALIAN 321  Introduction to Italian Literature  3
ITALIAN 322  Introduction to the Literary Text  3

300-Level or Higher Italian Elective  3

LATIN CONTENT AREA â€“ 18 cr.

LATIN 103  First Semester Latin  3
LATIN 104  Second Semester Latin  3
LATIN 205  Third Semester Latin  3
LATIN 306  Fourth Semester Latin  3
LATIN 508  Latin Prose Composition  3

Select one of the following courses:
LATIN 501  Readings in Latin Prose*  3
LATIN 502  Readings in Latin Poetry*  3
LATIN 699  Directed Reading*  3

* Retakeable with a change in topic.

RUSSIAN CONTENT AREA
Consult with a faculty or academic advisor in the Department of Curriculum and Instruction.

SPANISH CONTENT AREA â€“ 18 cr.

SPANISH 308 (305)  Advanced Writing and Reading  3
Select one of the following two courses:
SPANISH 318 (311)  Advanced Speaking and Listening  3
SPANISH 319 (317)  Advanced Speaking and Listening for Heritage Speakers  3
SPANISH 341  Introduction to Hispanic Linguistics  3
SPANISH 350  Introduction to Literary Analysis  3

Select one of the following courses:
SPANISH 446  Hispanic Sociolinguistics  3
SPANISH 470  Survey of Hispanic Literature  3
SPANISH 472  Survey of Spanish-American Literature  3
SPANISH 474  Survey of Spanish Literature  3
SPANISH 461 (365)  Survey of Hispanic Culture  3

OTHER PROGRAM REQUIREMENTS

Language Proficiency Requirement. A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor in the Department of Curriculum and Instruction.

Immersion Requirement. An immersion experience is required for all prospective language teachers. This requirement must be met by spending a semester or a year in a country where the chosen major language is spoken. Submit documentation of immersion experience to your academic advisor in the Department of Curriculum and Instruction prior to student teaching placement.
PROFESSIONAL EDUCATION REQUIREMENTS

A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.

CURRINS 542  History and Politics of Second Language Education  3
CURRINS 637  World Language Methods and Materials  3
CURRINS 639  Critical Issues and Methods in World Language Education  3

Student Teaching. Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Field Experience website at www4.uwm.edu/soe/academics/clinical-experiences.cfm.

To be approved for placement, you must meet the following criteria:

• Be admitted to the School of Education;

• Completion of all required coursework;

• Cumulative GPA of a minimum 2.5;

• A minimum 2.75 in all your world language content area and professional education courses;

• Passing scores reflected on your transcript for the Praxis II exam: #20173 - French, #20181 - German, or #10191 - Spanish. Note: There is currently no PRAXIS II exam for Chinese or Italian. Consult with your faculty advisor;

• Removal of all F or I (incompletes) grades;

• TB test results submitted to the Field Experience Office;

• Criminal Background Check submitted to the Field Experience Office;

• Completion of language proficiency requirement; and

• Completion of immersion requirement.

CURRINS 437  Student Teaching in World Languages  3
CURRINS 445  Seminar in Language Education (Not required for students who are currently completing a portfolio in their major certification.)  3

ADDITIONAL REQUIREMENTS FOR CERTIFICATION

• Minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.

• Undergraduate students must meet the graduation requirements for their primary certification.

• Program Portfolio. Students complete a program portfolio based on the 10 WI Teacher Standards.

Courses
The Department of Exceptional Education offers an array of programs that prepare teachers in the fields of special education, interpreter training, and American Sign Language. Students interested in these programs should contact the department advising office, Enderis 610, or visit www4.uwm.edu/soe/academics/ex_ed/ for more detailed information.

Special Education Teacher Certification Programs

The Department of Exceptional Education offers teacher certification programs in the following areas:

- **Early Childhood Special Education** (approximate ages of birth through 8).
- **Middle Childhood-Early Adolescence** (approximate ages of 6 through 12 or 13). Cross-categorical Special Education with a concentration in one of the following: Emotional/Behavioral Disabilities, Cognitive Disabilities, or Learning Disabilities.
- **Early Adolescence-Adolescence** (approximate ages of 10 through 21). Cross-categorical Special Education with a concentration in one of the following: Emotional/Behavioral Disabilities, Cognitive Disabilities, or Learning Disabilities.
- **Deaf or Hard-of-Hearing** (Early Childhood through Adolescence level); with certification in Middle Childhood-Early Adolescence Learning Disabilities for those who are enrolled in the full, two-year program.

These programs are offered at the post-baccalaureate level and may be combined with a master’s degree in Exceptional Education. Also, undergraduates interested in special education can enroll in a “Fifth Year” Dual Certification Program which requires successfully completing a regular education Middle Childhood-Early Adolescence Program in the Department of Curriculum and Instruction and continuing for a fifth year option (outlined under the MCEA program below).

**Early Childhood Special Education** (birth to age 8)

*Summer I*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 302</td>
<td>Curriculum at the Prekindergarten and kindergarten Levels</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 630</td>
<td>Survey Early Childhood Intervention: Young Children with Special Needs</td>
<td>3</td>
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</tbody>
</table>

*6 credits*

*Fall I*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EXC EDUC 569</td>
<td>Curriculum and Methods for Special Education: Preschool</td>
<td>3</td>
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<tr>
<td>EXC EDUC 648</td>
<td>Early Childhood Field Experience: Preschool</td>
<td>3</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>CURRINS 502</td>
<td>Developing Early Reading and Writing</td>
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<tr>
<td>9 credits</td>
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<tr>
<td><strong>Spring I</strong></td>
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<tr>
<td>CURRINS 504</td>
<td>Teaching Reading and Writing in EC: the Primary Years</td>
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<tr>
<td>EXC EDUC 570</td>
<td>Curriculum and Methods for Special Education: Primary</td>
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<tr>
<td>EXC EDUC 649</td>
<td>Early Childhood Special Education Field Experience: Primary</td>
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<tr>
<td>9 credits</td>
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<tr>
<td><strong>YEAR TWO</strong></td>
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</tr>
<tr>
<td><strong>Summer II</strong></td>
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<tr>
<td>EXC EDUC 568</td>
<td>Curriculum and Methods for Special Education, Birth to Three</td>
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<tr>
<td>EXC EDUC 647</td>
<td>Early Childhood Field Experience: 0 to 3 years</td>
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<td>6 credits</td>
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<td><strong>Fall II</strong></td>
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<tr>
<td>EXC EDUC 682</td>
<td>Language and Literacy in Early Childhood Special Education</td>
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<tr>
<td>CURRINS 330</td>
<td>Teaching of Mathematics: Early Childhood</td>
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<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
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<tr>
<td>Or</td>
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<tr>
<td>ED PSY 640</td>
<td>Human Development: Theory and Research</td>
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<tr>
<td><strong>Spring II</strong></td>
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<tr>
<td>EXC EDUC 652</td>
<td>Developmental Evaluation of Young Children with Disabilities</td>
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<td>EXC EDUC 651</td>
<td>Working with Families in Urban Communities</td>
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<tr>
<td>EXC EDUC 481</td>
<td>Student Teaching with Students Who Have Early Childhood Exceptional Ed Needs</td>
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<tr>
<td>EXC EDUC 776</td>
<td>Fieldwork with Students Having Early Childhood Exceptional Education Needs</td>
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<td>CURRINS 400</td>
<td>Fieldwork in Curriculum and Instruction</td>
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<td><strong>Thesis/Project Year (graduate students only) – 15 Graduate Credits</strong></td>
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<td>ED POL 530</td>
<td>Urban Education Foundations</td>
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<tr>
<td>Or</td>
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<tr>
<td>EXCEDUC 608</td>
<td>Multicultural Learning and Teaching in Exceptional Education</td>
<td></td>
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<tr>
<td>Or</td>
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<tr>
<td>ED POL 705</td>
<td>Sociology of Education</td>
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</tr>
<tr>
<td>EXCEDUC 715</td>
<td>Issues and Trends in Exceptional Education</td>
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<tr>
<td>3</td>
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<tr>
<td><strong>An Approved Educational Research Course</strong></td>
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<tr>
<td>EXCEDUC 970</td>
<td>Research on Individuals with Handicapping Conditions (primary research course)</td>
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<tr>
<td>Or</td>
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<td></td>
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<tr>
<td>ED PSY 624</td>
<td>Educational Statistics Methods I</td>
<td></td>
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<td>Or</td>
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<td></td>
</tr>
<tr>
<td>ED POL 710</td>
<td>Research Methods in Cultural Foundations</td>
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<tr>
<td>Or</td>
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<tr>
<td>CURRINS 729</td>
<td>Qualitative Research and Field Studies in Educational Settings</td>
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<tr>
<td>Or</td>
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<tr>
<td>An Alternate with Advisor Approval</td>
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<tr>
<td>EXCEDUC 815</td>
<td>Capstone Course in Special Education</td>
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<tr>
<td>EXCEDUC 990</td>
<td>Research or Thesis</td>
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</tbody>
</table>
Middle Childhood-Early Adolescence (teaching students across disability areas including cognitive disabilities, emotional disabilities and learning disabilities, in elementary and middle school settings)

YEAR ONE
Summer I – 9 Certification Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EXCEDUC 586</td>
<td>Teaching Experience I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 680</td>
<td>Literacy I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
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Fall I – 9 Certification Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EXCEDUC 587</td>
<td>Teaching Experience II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 571</td>
<td>Curriculum Accommodations I: Primary/Middle</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 601</td>
<td>Behavioral Supports</td>
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Spring I – 10 Certification Credits/Portfolio Presentation Review

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 587</td>
<td>Teaching Experience II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 681</td>
<td>OR Developing Biliteracy</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 543</td>
<td>Issues in Elementary and Middle School Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 487</td>
<td>Linking Seminar II: Primary/Middle-Behavioral Support, Planning, Assessment</td>
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</table>

YEAR TWO
Summer II – 6 Graduate Credits

<table>
<thead>
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<th>Title</th>
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<tbody>
<tr>
<td>EXCEDUC 662</td>
<td>Collaborative Strategies</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 530</td>
<td>Urban Education: Foundations or alternate with advisor approval</td>
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</table>

Fall II – 6 Certification Credits/9 Graduate Credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EXCEDUC 588</td>
<td>Teaching Experience III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 771</td>
<td>OR Field Work with Students Having Exceptional Education Needs (graduate students)</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 532</td>
<td>Assessment and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 715</td>
<td>Issues and Trends in Exceptional Education (graduate students)</td>
<td>3</td>
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</tbody>
</table>

Spring II – 7 Certification Credits/6 Graduate Credits/Portfolio Presentation Review

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>EXCEDUC 574</td>
<td>Curriculum Accommodations II</td>
<td>3</td>
</tr>
<tr>
<td>Selected Course with Advisor Approval:</td>
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</tbody>
</table>
### Advanced Methods in Learning Disabilities
- Assistive Technology
- Transition from School to Work
- Teaching English Language Learners

#### Thesis/Project Year (graduate students only)
An Approved Educational Research Course

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 488</td>
<td>Linking Seminar III: Primary/Middle - Professional Development</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Learning & Development: An additional 3-credit course, Ed Psy 640 or Ed Psy 330, Learning & Development, is required for those with limited background knowledge in this area. This course must be taken before or during Summer I.

### Fifth-Year Option for Middle Childhood-Early Adolescence

Undergraduates interested in becoming a special educator begin by seeking admission to the Collaborative Teacher Education Program for Urban Communities in the Department of Curriculum and Instruction. Upon successful completion of the general education Middle Childhood through Early Adolescence level program, students are automatically admitted to the fifth-year special education option. Successful completion of the fifth-year option results in "dual certification" as a regular and special educator. The course requirements for the fifth-year option in Middle Childhood-Early Adolescence are outlined below.

#### Summer
- Exc Educ 662 (or Collaborative Strategies) 3
- EXCEDUC 587 Teaching Experience II 3
- EXCEDUC 601 Behavioral Supports 3
- EXCEDUC 533 Assessment/Monitoring: Deaf & Hard of Hearing 3

#### Fall
- EXCEDUC 588 Teaching Experience III 3
- EXCEDUC 488 Linking Seminar III: Primary/Middle - Professional Development 1
- EXCEDUC 574 Curriculum Accommodations II 3
- EXCEDUC 681 Literacy II 3

The fifth-year option for Early Childhood Special Education is available by contacting the Department of Exceptional Education.
Early Adolescence-Adolescence (teaching students across disability areas in middle or high school settings)

YEAR ONE
Summer I – 9 Certification Credits
EXCEDUC 586 Teaching Experience I 3
EXCEDUC 680 Literacy I 3
EXCEDUC 605 Child, Learner, Disabilities 3

Fall I – 9 Certification Credits
EXCEDUC 587 Teaching Experience II 3
EXCEDUC 635 Individual Planning & Instructional Methods 3
EXCEDUC 671 Behavior Support & Intervention for Mid/High Students with Disabilities 3

Spring I – 10 Certification Credits/Portfolio/Performance Review
EXCEDUC 587 Teaching Experience II 3
EXCEDUC 636 Curriculum Accommodations 3
CURRINS 332 Teaching of Mathematics: Middle School 3
EXCEDUC 486 Linking Seminar I: Teaching in Urban Schools 1

YEAR TWO
Summer II – 6 Certification Credits/6 Graduate Credits
CURRINS 545 Reading in the Content Areas: Middle, Junior, and Senior High School 3
ED POL 530 Urban Education: Foundations 3

Fall II – 6 Certification Credits/9 Graduate Credits
EXCEDUC 588 Teaching Experience III 3
OR
EXCEDUC 771 Field Work with Students Having Exceptional Education Needs (graduate students) 3
EXCEDUC 532 Assessment and Monitoring 3
EXCEDUC 679 Critical Issues in Transition Planning for Students with Disabilities 3

Spring II – 8 Certification Credits/6 Graduate Credits/Portfolio/Performance Review
Selected Course with Advisor Approval:
EXCEDUC 588 Teaching Experience III 3
OR
EXCEDUC 771 Field Work with Students Having Exceptional Needs 3
OR
CURRINS 541, 543, or 546 for ESL Focus 3
OR
Focus area (e.g., Advanced Methods in Learning Disabilities, Assistive Tech) 3
EXCEDUC 496 Linking Seminar III: Middle/High – Professional Development 2
EXCEDUC 662 Collaborative Strategies 3

Thesis/Project Year (graduate students only)
EXCEDUC 715 Issues and Trends in Exceptional Education 3

An Approved Educational Research Course
EXCEDUC 970 Research on Individuals with Handicapping Conditions (primary research course) 3
OR
ED PSY 624 Educational Statistics Methods I 3
OR
ED POL 710 Research Methods in Cultural Foundations 3
OR
CURRINS 729 Qualitative Research and Field Studies in Educational Settings 3
OR
An Alternate with Advisor Approval
EXCEDUC 815 Capstone Course in Special Education 3
EXCEDUC 990 Research or Thesis 3
Learning & Development: An additional 3-credit course, Ed Psy 640 or Ed Psy 330, Learning & Development, is required for those with limited background knowledge in this area. This course must be taken before or during Summer I.

Deaf and Hard-of-Hearing (teaching in early childhood, elementary, middle, and high school settings)

YEAR ONE

Summer I – 13 Credits (excluding sign language)
EXCEDUC 586  Teaching Experience I 3
EXCEDUC 680  Literacy I 3
EXCEDUC 605  Child, Learner, Disabilities 3
EXCEDUC 562  Hearing Science 3
EXCEDUC 655  Introduction to Education of Individuals Who Are Deaf and Hard of Hearing 1
Sign Language (depending upon skill level) 3
EXCEDUC 301 (ASL I), EXCEDUC 302 (ASL II), EXCEDUC 303 (ASL III), EXCEDUC 304 (ASL IV)

Fall I – 12 Credits
EXCEDUC 587  Teaching Experience II 3
EXCEDUC 571  Curriculum Accommodations I: Primary/Middle 3
EXCEDUC 601  Behavioral Supports 3
EXCEDUC 559  Communication in the Classroom II: Deaf/Hard of Hearing 3

Spring I – 13 Certification Credits/Portfolio/Presentation Review
EXCEDUC 587  Teaching Experience II 3
EXCEDUC 681  Literacy II 3
OR
CURRINS 543  Developing Biliteracy 3
CURRINS 561  Issues in Elementary and Middle School Mathematics 3
EXCEDUC 487  Linking Seminar II: Primary/Middle - Behavioral Support, Planning, Assessment 3
EXCEDUC 563  Speechreading/Auditory Rehabilitation 3

YEAR TWO

Summer II – 10 Credits (excluding sign language)
EXCEDUC 662  Collaborative Strategies 3
EXCEDUC 587  Teaching Experience II 3
OR
EXCEDUC 771  Field Work with Students Having Exceptional Education Needs (graduate students) 3
EXCEDUC 488  Linking Seminar III: Primary/Middle - Professional Development 1
ED POL 530  Urban Education: Foundations or Alternate with advisor approval 3
Sign Language (depending upon skill level) 3
EXCEDUC 301 (ASL I), EXCEDUC 302 (ASL II), EXCEDUC 303 (ASL III), EXCEDUC 304 (ASL IV)

Fall II – 10 Credits
EXCEDUC 588  Teaching Experience III 3
OR
EXCEDUC 772  Field Work with Students Having Hearing Impairments 3
EXCEDUC 532  Assessment and Monitoring 3
EXCEDUC 533  Assessment/Monitoring: Deaf & Hard of Hearing 1
EXCEDUC 715  Issues and Trends in Exceptional Education 3

Spring II – 4 Credits/Portfolio/Presentation Review
EXCEDUC 574  Curriculum Accommodations II: Primary/Middle 3
EXCEDUC 488  Linking Seminar III: Primary/Middle – Professional Development 1

Graduate Study
Students in the DHH Program who want to earn a Master’s Degree with certification will work with their faculty
advisor to complete the following core course requirements:

**An Approved Educational Research Course**
EXCEDUC 970 Research on Individuals with Handicapping Conditions (primary research course) 3
OR
ED PSY 624 Educational Statistics Methods I 3
OR
ED POL 710 Research Methods in Cultural Foundations 3
OR
CURRINS 729 Qualitative Research and Field Studies in Educational Settings 3
OR
An Alternate with Advisor Approval
EXCEDUC 815 Capstone Course in Special Education 3
EXCEDUC 990 Research or Thesis 3

**Learning & Development:** An additional 3-credit course, Ed Psy 640 or Ed Psy 330, Learning & Development, is required for those with limited background knowledge in this area. This course must be taken before or during Summer I.

**Undergraduate Programs in Exceptional Education**
The Department of Exceptional Education offers programs in Interpreter Training, American Sign Language Studies (major and minor), and Early Adolescence-Adolescence (ages 10-21).

NOTE: Additionally, American Sign Language I-VI courses, in the Department of Exceptional Education, satisfy University foreign language requirements. For all programs that require American Sign Language, students with previous experience with American Sign Language can take the American Sign Language Proficiency Interview (ASLPI) to determine appropriate placement level. If a B or better is received on the ASLPI, credit will be received for courses up through ASL 4. Any individual who would like to take the ASLPI will be responsible for the cost of the assessment. Please call 414-229-4663 for more information.

**Interpreter Training Program**
The Interpreter Training Program (ITP) may be completed as an undergraduate degree or as a post-baccalaureate certification. Graduates of the program are prepared to work in a variety of settings as interpreters with children, youth, and adults who are deaf and hard-of-hearing. Students applying for the post baccalaureate program should contact the Department of Exceptional Education for specific requirements at 414-229-4663. Students who seek application to the ITP as undergraduates must meet the following admission requirements:

**Admission requirements:**
- Score of 4 or higher on the English Placement Test, or English 102 or an equivalent with a grade of C or better;
- Score of 30 or higher on the Math Placement Test, or Math 103, 105, 175, or equivalent with a grade of C or better;
- Commun 103, Public Speaking, with a grade of C or better;
- ExcEduc 300, Exceptional Individual, with a grade of C or better;
- ExcEduc 348, Introduction to the Profession of Interpreting, with a grade of C or better;
- ExcEduc 352, American Deaf Culture, with a grade of C or better
- EXCEDUC 301-306, American Sign Language I-VI, ASL I-II with a grade of C or better; ASL III-VI with a grade of B or better
- 58 credits complete;
- Cumulative GPA of 2.5;
- Completion of Screening Interview which occurs after application is submitted

**ITP Bachelor Degree requirements:**
- Completion of all admission requirements, granted admission to the ITP, and completion of ITP professional course sequence;
• Completion of ITP GER requirements;
• At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
• Completion of a minimum 128 degree credits;
• Cumulative GPA of 2.5.

University GER requirements were recently updated to include Oral and Written Communication and Quantitative Literacy Competencies. See your advisor to find out which set of requirements you must fulfill.

Language and Licensure Requirements
Egnlish 201- Strategies for Academic Writing (3 credits)
Psych 101- Introduction to Psychology (3 credits)
Psych 260- Child Psychology (3 credits)
ExcEduc 346- Semantics (3 credits)
ExcEduc 510 Classifiers or ExcEduc 520 ASL Literature (3 credits)

Professional Course Sequence
Students must have a grade of C or better and minimum 2.75 GPA in all professional coursework.

Fall I
EXC EDUC 345 Interpreting Skills Development I 3
EXC EDUC 347 English Skills Development 3
EXC EDUC 349 Fieldwork: Interacting in the Deaf Community I 3
EXC EDUC 358 ASL/English Linguistics 3
Note: Field requirement – 100 hours outside the classroom

SPRING I
EXC EDUC 350 Interpreting: Spoken English to ASL II 3
EXC EDUC 351 Interpreting: ASL to Spoken English II 3
EXC EDUC 354 Fieldwork: Interacting in the Deaf Community II 3
EXC EDUC 360 Transliteration/Oral I 3
EXC EDUC 363 ASL/English Linguistics II 3
Note: Field requirement – 100 hours outside the classroom

Note: Students will meet with ITP coordinator to discuss achievement of program benchmarks

Year Two

FALL II
EXC EDUC 355 Interpreting: ASL to Spoken English III 3
EXC EDUC 356 Transliteration II 3
EXC EDUC 357 Issues and Trends for Educational Interpreters 3
EXC EDUC 359 Interacting in the Deaf Community III 3
Field requirement: 100 hours outside the classroom

SPRING II
EXC EDUC 362 Specialized Interpreting Across Diverse Settings 3
EXC EDUC 364 Interacting in the Deaf Community IV 6-12
7-week Educational Interpreting Internship (K-12 Educational setting). Students must complete a minimum of 6 credits of EXC EDUC 364, Interacting in the Deaf Community. Program advisor will assess the need for additional credits before the beginning of the final semester. Assessment will be based on portfolio review and fieldwork observations.

57 total credits in ITP Sequence plus 15 credits in Language & License requirements

Certificate of Completion Requirements:

• Completion of Wisconsin Department of Instruction Educational Interpreter License course requirements with a C or better: ComSDis 240, Normal Speech and Language Development; Psych 260, Child Psychology; ExcEduc
662, Collaborative Strategies;
- Pass written exam for the Registry of Interpreters for the Deaf National Interpreter Certification (RID, NIC) and/or the Educational Interpreter Proficiency Assessment (EIPA);
- Pass the performance exam for Wisconsin Interpreter and Transliteration Assessment (WITA) with a 2/2 or higher and/or the Registry of Interpreters for the Deaf National Interpreter Certification (RID, NIC) and/or the Educational Interpreter Proficiency Assessment (EIPA) with a 3.0 or higher; and
- Minimum grade of C or better in all professional coursework.

**American Sign Language (ASL) Studies Major**

The American Sign Language Studies Major program incorporates all of the cultural and linguistic components of American Sign Language. Several objectives will be covered during the program, such as Deaf culture, Deaf folklore, and Deaf literature, and the relationship between the signing community and the non-signing community. This program also covers linguistic components with several course offerings in ASL as well as specialized skill areas of ASL, such as a focus on grammatical structure and an overview of linguistic components of ASL.

**ASL PROGRAM REQUIREMENTS**

- Score a 4 or higher on the English Proficiency Exam, or English 102 with a C or better;
- Score a 30 or higher on the Math Placement Test, or Math 105, 106, 175, or equivalent with a C or better;
- Communication Proficiency, Commun 101 or Commun 103, with a C or better;
- Maintain a cumulative GPA of 2.5;
- Students must have a minimum grade of C or better in all professional coursework;
- Completion of ASL GER requirements;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program; and
- Completion of a minimum 128 degree credits.

**ASL MAJOR COURSE REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 302</td>
<td>American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 303</td>
<td>American Sign Language III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 304</td>
<td>American Sign Language IV</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 305</td>
<td>American Sign Language V</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 306</td>
<td>American Sign Language VI</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 330</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 346</td>
<td>Skill Development: Semantics</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 352</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 358</td>
<td>ASL/English Linguistics I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 363</td>
<td>ASL/English Linguistics II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 500</td>
<td>Fingerspelling and Numbers</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 510</td>
<td>Classifiers</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 520</td>
<td>ASL Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

**Education Electives: Choose one of the following:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 348</td>
<td>Introduction to the Profession of Interpreting</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 655</td>
<td>Introduction to Education of Individuals Who Are Deaf and Hard of Hearing</td>
<td>1</td>
</tr>
<tr>
<td>CURRINS 100</td>
<td>Introduction to Teaching</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Other Major/focus elective approved by advisor

**American Sign Language (ASL) Studies Minor**

The American Sign Language (ASL) Studies Minor program addresses the needs of students who are already pursuing a
major in another area of study, but want to supplement their studies with knowledge and skill in ASL. This will allow students to be able to communicate with Deaf persons they may meet in their professions. Students must have a minimum grade of C or better in all ASL minor coursework.

ASL Minor Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXCEDUC 301</td>
<td>American Sign Language I</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 302</td>
<td>American Sign Language II</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 303</td>
<td>American Sign Language III</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 304</td>
<td>American Sign Language IV</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 305</td>
<td>American Sign Language V</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 306</td>
<td>American Sign Language VI</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 330</td>
<td>Deaf History</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 346</td>
<td>Skill Development: Semantics</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 352</td>
<td>American Deaf Culture</td>
<td>3</td>
</tr>
<tr>
<td>EXCEDUC 510</td>
<td>Classifiers</td>
<td>3</td>
</tr>
</tbody>
</table>

Early Adolescence through Adolescence Special Education

The Early Adolescence - Adolescence Special Education major is a cross-categorical program that prepares teachers to work with students with a range of disabilities, from ages 10-21, in middle and high school settings.

Students who seek application to the EAA undergraduate program must meet the following application requirements:

Application requirements:
- Achieve a placement level 4 or higher on the English Placement Test, or complete English 102 or an equivalent with a C or better (OWC-A);
- Score of 30 or higher on the Math Placement Test or Math 105, 106, 175, or equivalent with a C or better (QL-A);
- Successful completion of a Wisconsin Approved Basic Skills Test.
- Completion of CurrIns 300, Introduction to Teaching, with a C or better;
- Completion of ExcEduc 300, The Exceptional Individual (or equivalent) with a C or better;
- Completion of EdPol 375, Cultural Foundations of Education (or equivalent), with a C or better;
- Completion of an approved advanced course (at least 3 credits) with a significant written or oral communication component (OWC-B) with a C or better (Recommendations: EXCEDUC 560, ENG 215, END 240, ENG 201, ENG 206 or equivalent)
- Completion of an approved advanced course (at least three credits) making use of quantitative tools (QL-B) with a C or better (Recommendations: PHILOS 211 or equivalent).
- Completion of a minimum of 45 credits at the time of application (must complete 58 by the time of program commencement with a minimum of 37 successfully completed credits in GER/Content Area coursework);
- Maintain a cumulative GPA of 2.5;
- Completion of a Program Application; and
- Interview.

EAA Bachelor Degree/Certification Requirements:
- Completion of all admission requirements, granted admission to the EAA program, and completion of EAA professional course sequence;
- Successful completion of the Praxis II. Passage of Wisconsin Foundations of Reading test. Passage of edTPA (beginning 2015-16 school year);
- Completion of a minimum of 53 credits-GER and Electives focused on Content Area(s) relevant for a Special Educator in middle and high school settings;
- Completion of EAA GER requirements;
- Completion of ACT 31 requirement;
- Completion of foreign language requirement;
- At least 30 program credits must be earned in residence at the University of Wisconsin – Milwaukee, following
admission to the program;
• Completion of a minimum 128 degree credits.
Maintain a cumulative GPA of 2.75.

Students may enter the professional courses only after formal admission to the School of Education. The professional program consists of four semesters, including fieldwork/student teaching. Students must have a minimum grade of C or better in all professional coursework.

Professional Course Sequence

**Fall I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 545</td>
<td>Reading in the Secondary Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 635</td>
<td>Individualized Planning &amp; Instructional Methods</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 643</td>
<td>Balanced Literacy Instruction in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 486</td>
<td>Portfolio Development</td>
<td>1</td>
</tr>
</tbody>
</table>

Field Requirement: 1.5 days per week or 135 hours

**SPRING I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 332</td>
<td>Teaching of Mathematics, Middle School</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 489</td>
<td>Linking Seminar II: Middle/High-Behavioral Support, Planning &amp; Assessment</td>
<td>1</td>
</tr>
<tr>
<td>EXC EDUC 595</td>
<td>Technology Applications for Diverse Learners</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 636</td>
<td>Curriculum Accommodations</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 662</td>
<td>Collaborative Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 680</td>
<td>Literacy</td>
<td>3</td>
</tr>
</tbody>
</table>

Field Requirement: 2 days per week or 190 hours

It is strongly recommended that students take the Reading Test required for Initial Certification at the end of the first year of the professional sequence.

**FALL II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXC EDUC 532</td>
<td>Assessment and Monitoring</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 671</td>
<td>Behavioral Support and Intervention for Mid/High Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 679</td>
<td>Critical Issues in Transition Planning for Students with Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 496</td>
<td>Linking Seminar III: Middle/High-Professional Development</td>
<td>2</td>
</tr>
<tr>
<td>EXC EDUC 587</td>
<td>Teaching Experience III</td>
<td>3</td>
</tr>
</tbody>
</table>

Field Requirement: Half-days (M-F)

Praxis II requirement: All students are required to successfully complete the Praxis II examination prior to their final student teaching semester (Spring II)

**SPRING II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CURRINS 543</td>
<td>Developing Biliteracy</td>
<td>3</td>
</tr>
<tr>
<td>EXC EDUC 588</td>
<td>Teaching Experience III</td>
<td>9</td>
</tr>
</tbody>
</table>

Field Requirement: Twenty weeks full-time (M-F)

Courses

Exceptional Education (EXCEDUC)

Web Home Pages:
[ School of Education ]
School of Education

Educational Psychology

- Web Home Pages:
  - School of Education
  - Educational Psychology
- Courses: Counseling (COUNS)
- Courses: Educational Psychology (ED PSY)

The Department of Educational Psychology offers undergraduate courses in human development and learning, measurement, research, evaluation and statistics, school psychology, school counseling, and community counseling. These courses are for students enrolled in teacher preparation programs in the School of Education and for interested students in other schools and colleges. Undergraduates may not major or minor in educational psychology. For graduate programs, see The University of Wisconsin-Milwaukee Graduate Bulletin.

Courses

Counseling (COUNS)

Educational Psychology (ED PSY)
The Department of Educational Policy and Community Studies at UWM provides students with a deeper understanding about education and community contexts in urban areas, with a focus on the historical, political, economic, and sociocultural contexts of schools and society. The department offers a Bachelor’s of Science in Community Engagement and Education (CEED).

Students often choose to focus their coursework in one of the following areas:

- Alternative Education/At-Risk Students
- Child Care (Educator or Administrator Track)
- Community Organizing for Social Change
- Policy and Leadership in Community-Based Organizations
- Urban Education
- Youth Work

Students, past and present, are employed by charities, hospitals, schools, community-based organizations, and local government units in metropolitan Milwaukee. The Department does not offer licensure for teaching in K-12 public schools, but many graduates either seek post-baccalaureate certification or teach in private schools.

The purpose of the degree program is to assist those involved in community change activities and improve their ability to function in educational roles. Students can also select one of four optional submajors: Child Care, Community-Based Organizations Policy and Leadership, Child and Family Services, or Community Leadership. Students may seek certificates in Community Organizing, Community-Based Organizations & Leadership, Community Leadership, and Youth Work. Licensed teachers may seek an add-on state DPI certification in Alternative Education.

The Bachelor of Science degree in Community Engagement and Education is available as a second degree option. Candidates for a second degree must satisfy all current requirements for an undergraduate degree for the degree program. Some of the requirements may be met by transfer credits. Students must complete at least 30 credits in residence at UWM after the date on which the first degree is awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed in residence.

The Department works with individuals and groups that provide leadership in educational and community contexts and institutions. Students include state and local elected officials; community organizers and developers; personnel in human resource institutions, such as program developers, outreach workers, and administrators; teachers and directors of community day care programs; youth workers in community and group home care; teachers and directors of alternative schools; and citizen volunteers in community-based organizations.

The Department also offers a master’s degree program in Cultural Foundations of Education with areas of concentration in educational foundations and multicultural education as addressed through sociological, historical, philosophical, and comparative frames of reference. Additional information about the master’s degree program is available at www4.uwm.edu/soe/academics/ed_policy/cfe.cfm.
Community Engagement and Education Admission. Community Engagement and Education majors must meet regular University requirements for admission and are admitted through the Department.

Prior Professional Educational Experience. A student who has been accepted as a major in Community Engagement and Education may earn Prior Professional Educational Experience (PPEE) credit that will be counted toward the Community Engagement and Education degree. Students must demonstrate competence by completing examinations. Credit is awarded in 3-credit blocks, if the student earns a grade of C or better, on each of the 14 essay examinations that s/he takes. The specific competencies are listed below:

<table>
<thead>
<tr>
<th>Competency Areas</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Community Perspectives on Human Resource Programs</td>
<td>3</td>
</tr>
<tr>
<td>Resource Development</td>
<td>3</td>
</tr>
<tr>
<td>Local Community Systems</td>
<td>3</td>
</tr>
<tr>
<td>Political/Economic Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Personal Growth Competency</td>
<td>3</td>
</tr>
<tr>
<td>Philosophies of Change</td>
<td>3</td>
</tr>
<tr>
<td>Group Process Skills</td>
<td>3</td>
</tr>
<tr>
<td>Leadership Issues</td>
<td>3</td>
</tr>
<tr>
<td>Research Skills</td>
<td>3</td>
</tr>
<tr>
<td>Change Strategies</td>
<td>3</td>
</tr>
<tr>
<td>Educational Advocacy</td>
<td>3</td>
</tr>
<tr>
<td>Administrative Skills</td>
<td>3</td>
</tr>
<tr>
<td>Social Problem Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Conflict Resolution</td>
<td>3</td>
</tr>
</tbody>
</table>

Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course (ED POL 100, Community Education I) during their first or second semester of study. Students will be apprised of deadlines and procedures once they are enrolled in the course. The student may earn a maximum of 42 PPEE credits. These credits may be applied only to a Community Engagement and Education degree and only as lower division electives.

COURSE OF STUDY: MAJOR

Students take a common core of required introductory courses to help them learn how to evaluate the educational needs inherent in community social problems, devise appropriate change strategies, and improve their skills as advocates and educators. Students will have the opportunity to relate their programs of study to their community work.

A minimum of 120 credits distributed within specific categories is required for graduation. Please see your advisor for additional information.

The Department requires its students to meet the University’s General Education Requirements. Community Engagement and Education majors have until the beginning of their junior year (58 credits) to meet this requirement. Students admitted to the University for Semester I, 1986-87 or later must meet UWM’s General Education Requirements. University GER requirements were recently updated to include Oral and Written Communication and Quantitative Literacy Competencies. See your advisor to find out which set of requirements you must fulfill.

University GER Competency Requirements

- Oral & Written Communication Competency
- Quantitative Literacy Competency
- Foreign Language

University GER Distribution Requirements
<table>
<thead>
<tr>
<th>Credits</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 cr. from the following</td>
<td>ENGLISH 201**, Strategies for Academic Writing</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 202, Writing in the Humanities</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 205**, Business Writing</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 206**, Technical Writing</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 207**, Health Science Writing</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 214**, Writing in the Professions: (Subtitled)</td>
</tr>
<tr>
<td></td>
<td>ENGLISH 230, Writing with Style</td>
</tr>
<tr>
<td>3 cr.</td>
<td>ED POL 111, Organizing for Social Action in Urban Communities</td>
</tr>
<tr>
<td>3 cr.</td>
<td>ED POL 112, Introduction to Community Education</td>
</tr>
<tr>
<td>3 cr.</td>
<td>ED POL 113, The Milwaukee Community</td>
</tr>
<tr>
<td>3 cr.</td>
<td>ED POL 114, Community Problems</td>
</tr>
<tr>
<td>3 cr.</td>
<td>ED POL 506, Research Techniques for Community Organizers and Community Educators</td>
</tr>
<tr>
<td>3 cr.</td>
<td>ED POL 601, Foundations of Community-Based Organizations</td>
</tr>
<tr>
<td>3 cr.</td>
<td>Cultural Diversity—choose from:</td>
</tr>
<tr>
<td></td>
<td>ED POL 460, The Chicano Experience</td>
</tr>
<tr>
<td></td>
<td>ED POL 532, Male Identity: Education and Development</td>
</tr>
<tr>
<td></td>
<td>ED POL 533, Educating Black Males: Theories, Methods and Strategies</td>
</tr>
<tr>
<td></td>
<td>ED POL 560, Education and Hispanics</td>
</tr>
<tr>
<td></td>
<td>ED POL 561*, Education Issues in American Indian Communities</td>
</tr>
<tr>
<td></td>
<td>ED POL 610, Reproduction of Minority Communities</td>
</tr>
<tr>
<td></td>
<td>ED POL 620, History of the Education of African Americans</td>
</tr>
<tr>
<td></td>
<td>ED POL 621*, History of Native Education and Policy Development</td>
</tr>
<tr>
<td></td>
<td>ED POL 624, Gender and Education</td>
</tr>
<tr>
<td></td>
<td>ED POL 625*, Race Relations in Education</td>
</tr>
<tr>
<td></td>
<td>ED POL 626, Antiracist Education</td>
</tr>
<tr>
<td></td>
<td>ED POL 630, Race and Public Policy in Urban America</td>
</tr>
<tr>
<td></td>
<td>Child Care submajors choose 625 or consult with advisor.</td>
</tr>
</tbody>
</table>

Lower Division Electives — upper or lower division courses from any school/college.

Students may earn elective units through Educational Policy and Community Studies courses, including prior professional educational experience, transfer units, or other UWM courses.

**Total 66 cr. (57 for CFS)**

* Meets University GER Cultural Diversity Requirement also.

** Meets University GER Oral & Written Communication Part B Competency requirement.

In addition to these common requirements, students must complete one of the following sets of requirements:

**CEED—no submajor:**

Educational Policy Foundations 15 cr. ED POL 300-level or higher; a maximum of 6 cr. of fieldwork (ED POL 409, 688, or 698) may be used toward meeting this requirement; ED POL 499 cannot be used for this requirement.
Upper Division Electives  
15 cr. 300-level or higher from any school/college; including upper division transfer units. These courses should be chosen by the student in consultation with an Educational Policy and Community Studies advisor.

**Total 30 cr.**

**Submajor-specific Requirements**

**CEED—Community-Based Organizations Policy and Leadership submajor**

6 cr.  
**CBO Policy Analysis Required**  
ED POL 602, Proposal Writing and Fundraising Skills for Community-Based Organizations  
ED POL 605, Community-Based Organization Funding

6 cr. from the following  
**CBO Policy Analysis Elective**  
ED POL 409, Fieldwork/Practicum in Education and the Community  
ED POL 603, Policy Analysis for Community-Based Organizations  
ED POL 604, Marketing for Community-Based Organizations  
ED POL 510, Human Relations for Community Organizations & Community Engagement  
ED POL 609, Community Partnerships  
ED POL 610, Reproduction of Minority Communities  
ED POL 612, Community Participation and Power  
ED POL 630, Race and Public Policy in Urban America  
ED POL 633, Community Development for Low-Income and Minority Communities

6 cr. from the following:  
**Management and Leadership**  
AD LDSP 507, Introduction to Group Leadership  
AD LDSP 537, Leadership and Management of Volunteer Programs  
AD LDSP 581, Administration and Supervision in Early Childhood Programs  
AD LDSP 582, Operations Management in Early Childhood Programs  
AD LDSP 607, Coordination of Staff Development and Training Program  
AD LDSP 617, Leadership in Youth-Serving Organizations  
AD LDSP 647, Evaluation of Adult, Continuing, and Higher Education Programs  
AD LDSP 667, Program Planning in Adult Education

**Total 30 cr.**

**CEED—Child Care submajor**

Also listed below are course substitutions for students who matriculate into the department with an associate of applied science (AAS) degree in Early Childhood Education under the department's articulation agreement with the Wisconsin Technical College System (WTCS).

NOTE: Students completing the Administrator Track also receive a Certificate in Child Care Administration from the UWM Center for Early Childhood Professional Development & Leadership, and earn the Wisconsin Professional Credential for Child Care Administrators from The Registry.

6 cr.  
**Educational Policy Foundations**  
ED POL 375, Cultural Foundations of Education  
OR  
ED POL 530, Urban Education: Foundations  
ED POL 534, The Student at Risk (Causes)  
OR  
ED POL 535, Educating At-Risk Students  
ED POL 381, Introduction to Child Care

6 cr.  
**Child Care Foundations**  
(WTCS AAS substitute: Analysis of Child Care Environments)
ED POL 383, Child Care Programming: (Subtitled)  
(WTCS AAS substitute: Developing Early Childhood Programs)  
3 cr.  
CURRINS 585, Best Practices in Early Childhood for Children and Families  
(WTCS AAS substitute: Regulation of Child Care)  

Program Focus

Plus the following, for either the Educator or Administrator track:

9 cr.  
**Educator Track Requirements**  
ED POL 302, Approaches to Relationships in the Child Care Setting  
ED POL 340, Organizing and Operating a Child Care Center  
ED POL 416, Analysis of Child Care Environments  

6 cr.  
**Educator Track Electives**  
300-level or higher from any school/college or transfer credit equivalent  
(WTCS AAS Substitute: CURRINS 301, Infants and Toddlers Care, 3 cr.;  
and CURRINS 302, Curriculum at the Pre-Kindergarten and Kindergarten  
Levels, 3 cr.)

OR

15 cr.  
**Administrator Track Requirements**  
ED POL 582, Operations Management in Early Childhood Programs  
ED POL 584, Early Childhood Programs and the External Environment  
AD LDSP 581, Administration and Supervision in Early Childhood Programs  
AD LDSP 583, Financial Management and Planning in Early Childhood Programs  
AD LDSP 586, Administrative Seminar: Leadership in Early Childhood Programs  

**Total 30 cr.**

**CEED—Community Leadership submajor**

3 cr.  
**Community Leadership Foundation**  
ED POL 315, Group Process and Civic Engagement

3 cr. from the following:  
**Professional Standards**  
AD LDSP 579, Current Topics: (Leadership and Ethics)  
ED POL 510, Human Relations for Community Organizations & Community Engagement

9 cr. from the following:  
**Community Leadership Concentration**  
ED POL 409, Fieldwork/Practicum in Education and the Community  
ED POL 603, Community Policy Analysis  
ED POL 607, Service Learning and Community Engagement  
ED POL 608, Social Media and Technology for Community Engagement  
ED POL 609, Community Partnerships  
ED POL 610, Reproduction of Minority Communities  
ED POL 612, Community Participation and Power  
ED POL 630, Race and Public Policy in Urban America  
ED POL 633, Community Development for Low-Income and Minority Communities

3 cr. from the following:  
**Management and Leadership**  
AD LDSP 507, Introduction to Group Leadership  
AD LDSP 537, Leadership and Management of Volunteer Programs  
AD LDSP 607, Coordination of Staff Development and Training Program  
AD LDSP 617, Leadership in Youth-Serving Organizations  
AD LDSP 647, Evaluation of Adult and Continuing Education Programs  
AD LDSP 667, Program Planning in Adult Education

3 cr. from the following:  
**Social/Historical Foundations**  
COMMUN 472, Rhetoric of Radicalism in the United States  
ED POL 640, The Rise and Fall of America's Southern Civil Rights Movement  
ED POL 650, The Civil Rights Movement in Northern Cities  
HIST 440, History of the American Working Classes  
HIST 446, African Americans Since the Civil War  
His 460, The History of Poverty in America  
HIST 468, The American Feminist Movement
SOCIOL 235, Social Change in the Global Economy
SOCIOL 304, Political Sociology
SOCIOL 321, Contemporary Issues of the American Indian
SOCIOL 323, Perspectives on Latino Communities
SOCIOL 324, Comparative Race Relations
SOCIOL 325, Social Change
SOCIOL 333, Social Class in Industrial Society
WMNS 303, Feminist Activism and Movements: Subtitled
3 cr. from the following:
Capstone/Practicum
ED POL 409, Fieldwork/Practicum in Education and the Community
AD LDSP 630, Field Work in Schools, Agencies and Institutions
NURS 403, Practice, Research and Leadership Role Development I
WMNS 489, Internship in Women's Studies
COMMUN 698, Internship in Communication
6 cr.
Upper Division Electives
300-level or higher from any school/college

Total 30 cr.

CEED—Child and Family Services submajor

9 cr.
Social Work Lower Division
SOC WRK 100, Introduction to Social Work
SOC WRK 206, Introduction to Social Welfare Policy
SOC WRK 250, Human Behavior and the Social Environment
3 cr. from the following:
CBO Practice
ED POL 602, Proposal Writing and Fundraising Skills for Community-Based Organizations
ED POL 604, Community Policy Analysis
ED POL 605, Community-Based Organization Funding
ED POL 633, Community Development for Low-Income and Minority Communities
3 cr. from the following:
At-Risk Children
ED POL 534, The Student at Risk (Causes)
ED POL 535, Educating At-Risk Students
3 cr. from the following:
Youth Work
ED POL 580, An Overview of Child/Youth Care
SOC WRK 580, An Overview of Child/Youth Care
EXCEDUC 580, An Overview of Child/Youth Care
3 cr.
Race Relations
ED POL 625, Race Relations in Education
3 cr.
Fieldwork
ED POL 409, Fieldwork/Practicum in Education and the Community
5 cr.
Social Work
SOC WRK 310, Social Work Methods I
SOC WRK 562, Child and Family Services
10 cr.
Upper Division Electives
300-level or higher from any school/college

Total 39 cr.

COURSE OF STUDY: MINOR

The minor in Community Engagement and Education is open to all undergraduate students, but should be of particular interest to majors in Africology, anthropology, business, communication, curriculum and instruction, philosophy, political science, psychology, social welfare, and sociology.

With this minor, students can learn about local urban communities and how to improve them. This practical knowledge can provide a foundation for building a career in human services.

Students may declare the minor after completing at least 45 credits, but prior to completing 75 credits.

The minor consists of 18 credits distributed in the following manner:
3 cr. ED POL 112, Introduction to Community Education
3 cr. ED POL 114, Community Problems
12 cr. Upper Division ED POL Courses

Courses

Educational Policy and Community Studies (ED POL)

Web Home Pages:
[ School of Education ]
[ Educational Policy and Community Studies ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Educational Policy and Community Studies
[ School of Education ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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School of Education

Major in Educational Studies

Web Home Pages:

- School of Education
- Major in Educational Studies (Noncertification)

Educational Studies. A non-certification bachelor's degree as well as a second undergraduate degree program to prepare educators in nonschool settings. For admission and program information, contact the Educational Studies program advisor, Enderis Hall 209, (414) 229-4721.

The Educational Studies major, based in the Department of Administrative Leadership, is an individualized professional education program leading to a Bachelor of Science degree or a second undergraduate degree in Educational Studies. It is an interdisciplinary degree option for students who wish to examine education as a discipline or to pursue careers as educators in non-school settings. In particular, the major provides opportunities for study in the areas of adult education, youth leadership, and training and workforce development.

It is recommended that students declare Educational Studies as their intended major prior to admission to ensure meeting program requirements. Contact the Office of Academic Services for more information, (414) 229-4721.

Admission

1. Completion of a minimum of 58 degree credits with a minimum GPA of 2.50;
2. Completion of the UWM Oral & Written Communication Competency-Part A;
3. Completion of the UWM Quantitative Literacy Competency-Part A; and
4. Submission of an Educational Studies Program Plan developed with an academic advisor, listing courses to be taken.

Course of Study

The major is based in the Department of Administrative Leadership, and students, with their advisors, develop a course of study that emphasizes coursework appropriate to the academic/professional goals of the student. Currently the focus areas are adult education, youth leadership, and training and workforce development.

Degree Requirements

A minimum of 128 credits is needed for graduation. Students must satisfy all UWM, School of Education, and Educational Studies program requirements, and have satisfactorily completed the following minimum requirements:

Educational Studies Core Curriculum Requirements. A total of 36 credits is required in liberal arts coursework with 9 credits in each of the following areas: the humanities, fine arts, natural sciences, and social sciences. For courses that satisfy the distribution requirements in these areas, see the current Schedule of Classes.
Students not enrolled in a degree program in an accredited institution prior to September 1986 must also meet the General Education Requirements (GER).

**Educational Studies Major.** The Educational Studies Major is a means of developing professional skills. It requires completing at least 42 credits, 34 of them in the School of Education, with a 2.75 grade point average overall. The major contains three components:

**Focus Area.** A minimum of 18 credits in the chosen area of concentration (i.e., adult education, youth leadership, or training and workforce development).

**Fieldwork.** 3-6 credits. Practical experience applying the professional fieldwork skills of the student in an appropriate work setting.

**Common Learning Component.** Each student must earn 24 credits in coursework that develops knowledge of social cultural perspectives, human development and learning, program development, and communication skills/group processes. Contact the Office of Academic Services for a list of acceptable course titles.

**Advanced-Level Course Work Outside the School of Education.** Students enrolled as Educational Studies majors must complete a minimum of 12 credits of advanced-level coursework offered through departments outside the School of Education. Courses must be numbered 300 or above.

**General University Electives.** The program allows for a significant number of general University electives. For example, Educational Studies majors may elect supportive coursework in psychology, business, information studies, and/or other appropriate schools and departments.

**Educational Studies Second Degree Requirements**

1. Complete 42 credits.
   
   A. At least 30 of the program credits must be earned in residence at the University of Wisconsin-Milwaukee and following admission to the Educational Studies Program. The remaining 12 credits may be transferred from previous institutions/programs or earned inclusively within the Educational Studies program.

   B. At least 20 of the 42 credits must be earned in upper division courses (300 level or above). The common learning components allow for accommodation of this requirement.

   C. Earn at least 18 credits in selected focus areas. Select from adult education, youth leadership, and training and workforce development.

   D. Earn 3 credits in fieldwork within the selected focus area. The fieldwork placement will be determined by the faculty advisor and academic advisor.

   E. Earn 24 credits in the common learning components. These credits will be selected in consultation with the faculty advisor: social cultural perspectives, human development and learning, program development, and communication skills and group processes.

2. Achieve a 2.75 GPA on all focus area and common learning components credits.
The Department of Administrative Leadership offers a Bachelor’s Degree in Educational Studies. The degree is an interdisciplinary degree option for students who wish to examine education as a discipline or to pursue careers as educators in nonschool settings. Students work with an advisor to develop a course of study appropriate to the academic and professional goals of the student. In particular, the major provides opportunities for study in the areas of adult education, youth leadership, and training and workforce development.

For admission and program information, contact the Educational Studies program advisor, within the Office of Academic Services, located in Enderis Hall 209, (414) 229-4721.

Admission Requirements

1. Completion of a minimum of 58 degree credits with a minimum GPA of 2.50;
2. Completion of the UWM Oral & Written Communication Competency Part A;
3. Completion of the UWM Quantitative Literacy Competency Part A; and
4. Submission of an Educational Studies Program Plan developed with an academic advisor, listing courses to be taken.

Degree Requirements

A minimum of 128 credits is needed for graduation. Students must satisfy all UWM, School of Education, and Educational Studies program requirements, and have satisfactorily completed the following minimum requirements:

1. Students not enrolled in a degree program in an accredited institution prior to September 1986, must also meet the university’s General Education Requirements (GER).

2. Educational Studies Major. The Educational Studies Major is a means of developing professional skills. It requires completing at least 42 credits, 34 of them in the School of Education, with a 2.75 grade point average overall. The major contains three components:

   A. Focus Area. A minimum of 18 credits in the chosen area of concentration (i.e., adult education, youth leadership, or training and workforce development).

   B. Fieldwork. 3-6 credits. Practical experience applying the student’s professional skills in an appropriate work setting.

   C. Common Learning Component. Each student must earn 24 credits in coursework that develops knowledge of social cultural perspectives, human development and learning, program development, and communication skills/group processes. Contact the Office of Academic Services for a list of acceptable...
course titles.

3. Advanced Level Coursework Outside the School of Education. Students enrolled as Educational Studies majors must complete a minimum of 12 credits of advanced level coursework offered through departments outside the School of Education. Courses must be numbered 300 or above.

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   B. At least 20 of the 42 credits must be earned in upper division courses (300 level or above). The common learning components allow for accommodation of this requirement.

2. Earn at least 18 credits in selected focus areas. Select from: adult education, youth leadership, and training and workforce development.
   A. Earn 3 credits in fieldwork within the selected focus area. The fieldwork placement will be determined by the faculty advisor and academic advisor.
   B. Earn 24 credits in the common learning components. These credits will be selected in consultation with the faculty advisor: social cultural perspectives, human development and learning, program development, and communication skills and group processes.

3. Achieve a 2.75 GPA on all focus area and common learning components credits.

Other Programs

The Department of Administrative Leadership also offers master's degree programs and specializations within the Urban Education Doctoral Program in Adult and Continuing Education Leadership, Educational Administration, and Higher Education Administration.

The Adult and Continuing Education Leadership specialization prepares students for positions of leadership in a wide range of post-secondary programs, including vocational and technical education, university extension, continuing education, training and human resource development, instructional design, instructional technology, adult basic education, adult literacy, and community education.

The Educational Administration specialization prepares teachers for administrative positions in elementary and secondary schools as a principal, supervisor/director of instruction, director of special education and pupil services, and school business manager. A post-master's Specialist Certificate program for the school superintendent license also is offered through the Educational Administration specialization.

The Higher Education Administration specialization prepares leaders for urban higher education institutions who honor diversity and difference among people, groups, and societies.

Consult the University of Wisconsin-Milwaukee Graduate Bulletin for admission criteria and procedures for graduate degree or certificate programs.
Art and Design

- Admission Requirements
- Degree Requirements
- Degree Programs
- Bachelor of Fine Arts (Studio Art)
- Bachelor of Fine Arts with Teacher Certification (Art Education)
- Bachelor of Arts (Studio Art)
- Courses: Art
- Courses: Art Education

Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University academic requirements. Applicants to the Art & Design program must also submit a portfolio of artworks and additional supporting materials, as described below, for review by Art & Design faculty:

1. Art & Design Portfolio form. Complete the form and send in with your packet. (Form is online at www.uwm.edu/psoa/artdesign/admission)

2. Portfolio of artworks. The portfolio should ideally include 8-10 examples of the applicant's artwork (digital images on CD only), preferably from courses taken over the last two years. Include at least three drawings from observations (not from photographs). Label the digital images on CD with artist's name, media, size, and year of completion. Do not send actual work samples.

3. Copy of high school transcript or, for transfer students, college transcript(s). Unofficial copies are acceptable for this purpose.

4. Personal statement (one or two pages) describing how your past experiences, interests, and concerns relate to your college choice and career goals. Students who have not had significant prior exposure to formal art courses, or who do not have a portfolio of artworks to submit, are encouraged to write more extensive personal statements. The Department of Art & Design will accept students who do not have an art background but have a desire to learn.

5. Two confidential letters of recommendation, preferably from instructors familiar with the student's artwork and/or academic ability. Letters should be submitted in sealed envelopes and will remain confidential and the property of the Department of Art & Design.

Art & Design applicants must submit their portfolios as one complete packet containing all of the above items, and may do so in person or by mail to the address indicated below. Portfolios should NOT be submitted along with the initial application for admission to the University. Art & Design continues to accept students until UWM capacity is met.

Art & Design awards art scholarships based on this incoming portfolio. To be considered for art scholarships, the portfolio submission deadline is February 15. Art & Design scholarship notification will be in March.

Send materials to: Director of Foundations-Portfolio, Dept. of Art & Design - Mitchell Hall 371, Peck School of the Arts, University of Wisconsin-Milwaukee, 3203 N. Downer Ave., Milwaukee, WI 53211. General information: (414) 229-4200; art-info@uwm.edu; www.uwm.edu/psoa/artdesign.
Pre-Art Classification

Students accepted into the Art & Design program receive a Pre-Art designation and priority registration in Art & Design courses over non-art majors. The Pre-Art designation applies to all incoming freshmen and transfer students. To advance to the Art & Design major, students must complete the following:

1. Achieve a GPA of 2.50 after the First Year Program, 30 credits, and two 200-level studio courses are complete.
2. Complete 18 credits in First Year Program courses.
3. Complete six 200 level studio credits (including either Art 231, 261, 271, or 281).
4. Complete 12 credits in academic subjects outside the Peck School of the Arts, including courses that fulfill the university-wide General Education Requirement and the Oral and Written Communication Competency Part A (OWC-A) (English 102 or equivalent) and the Quantitative Literacy Competency Part A (QL-A) (Math 103, 105, 175, or equivalent).

After the completion of the above, Pre-Art designation changes to ArtBFA, ArtEdBFA, or ArtBA. The Department of Art & Design will assign a faculty advisor to each student after the completion of 30 credits. The required First Year Program courses are:

**First Year Program Courses: 18 cr.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>Art 102</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>Art 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>Art 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>Art 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
</tbody>
</table>

**200-Level Studio Requirements:**

**Part I: Select 3 - 6 credits from the following list:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 208</td>
<td>Color Concepts</td>
<td>3</td>
</tr>
<tr>
<td>Art 212</td>
<td>Introduction to Digital Studio Practice</td>
<td>3</td>
</tr>
<tr>
<td>Art 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>Film 222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>Art 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>Art 224</td>
<td>Dynamic Typography</td>
<td>3</td>
</tr>
<tr>
<td>Art 227</td>
<td>Design Workshop: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 238</td>
<td>Fibers Workshop: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 243</td>
<td>Introduction to Painting</td>
<td>3</td>
</tr>
<tr>
<td>Art 249</td>
<td>Painting and Drawing Workshop: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 253</td>
<td>Introduction to Photography</td>
<td>3</td>
</tr>
<tr>
<td>Art 259</td>
<td>Photography Workshop: (subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 269</td>
<td>Sculpture Workshop: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 279</td>
<td>Jewelry and Metallsmithing Workshop: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 289</td>
<td>Ceramics Workshop: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 291</td>
<td>Introduction to Print and Narrative Forms: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 299</td>
<td>Printmaking Workshop: (Subtitled)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Part II: Select 3-6 credits from the following list:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 231</td>
<td>Introduction to Fibers</td>
<td>3</td>
</tr>
<tr>
<td>Art 261</td>
<td>Introduction to Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>Art 271</td>
<td>Introduction to Jewelry and Metallsmithing</td>
<td>3</td>
</tr>
<tr>
<td>Art 281</td>
<td>Introduction to Ceramics</td>
<td>3</td>
</tr>
</tbody>
</table>
Art Education Program

Art Ed Intended designation is given to all students intending to pursue the BFA (Art Education). Art Ed Intended students will get priority registration in art courses over non-art majors. Art Ed Intended students may apply to this program upon completion of 30 art credits if the following requirements have been fulfilled:

1. Freshman First Year Program courses in art (see above).

2. Oral and Written Communication Competency Part A (OWC-A) (English 102 or Equivalent).

3. Quantitative Literacy Competency Part A (QL-A) (Math 103, 105, 175, or equivalent).

4. Communication Proficiency (Commun 101 or 102).

5. 2.75 cumulative grade point average (GPA).

6. Successful Praxis I tests.

7. Dept. of Public Instruction (DPI) Act 31 requirement. (This can be met by taking the Act 31 Workshop, History 263, Ethnic Studies 203, Anthropology 213, or English 276, subtitled "Literature, History and Sovereignty of Upper Midwest Indians" only.)

After successful completion of the above, students should contact the Peck School of the Arts Student Services Office for an application to enter the BFA (Art Education) Program. The application requires the following documents:

1. Application form.

2. Copies of college transcripts (unofficial copies are acceptable for this purpose) demonstrating completion of all Pre-Art Ed requirements (1 through 7 above).

3. Copy of Praxis I (tests in math, reading, and writing) results.

4. One- to two-page personal statement describing how past experiences, interests, and concerns relate to your decision to apply to the Art Education Program. Students who have had experience working with young people in the past should describe their teaching experiences to date. Students who have not had significant prior teaching experience are encouraged to write more extensive personal statements. The Art Education Area will accept students who do not have prior teaching experience, provided they demonstrate a disposition to learn to teach.

5. Assessment of performance in ART ED 227, Introduction to Art Education. Candidates must achieve a grade of B or better in ART ED 227, demonstrating proficiency in the knowledge, skills, and dispositions required of teacher candidates to be considered for the program.

Applicants are requested to submit application materials as one complete packet containing all of the above items, all of which will be used as criteria for acceptance to the program. The recommended submission deadline is April 15. After grades have been posted for the spring semester (approximately 7 weeks after the submission deadline), applicants will be notified of their status.

Send application to: Art Education Area Head, Mitchell Hall 371, Department of Art & Design, Peck School of the Arts, University of Wisconsin - Milwaukee, 3203 N. Downer Ave., Milwaukee, WI 53211.

For further details and procedures, see the general section on teacher certification degree requirements at the beginning of the Peck School of the Arts section of the undergraduate catalog.

Certification Requirements
Following admission to the Art Education Program (see admission requirements), and successful completion of the specified Art Education course of studies, a student seeking recommendation for teacher certification must successfully fulfill the following requirements:

1. Fulfill all degree requirements.
2. Fulfill the Field Experience Requirement.
3. Compile at least a 2.75 cumulative GPA.
4. Pass the Praxis II Art Content Exam.
5. Successfully complete student teaching.
6. Demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of art education through the use of a teaching portfolio (see explanation below).

**Teaching Portfolio**

The Art Education Area and the Wisconsin Department of Public Instruction require that students compile a teaching portfolio that demonstrates teaching proficiency. The portfolio will be compiled as a part of their major art education methods (Art Ed 327, 328, 425, and 426) and field experience requirements. Evidence of teaching proficiency must include:

1. Record of passing scores on Praxis I (tests in math, reading, and writing) and Praxis II Art Content Exams.
2. Transcript demonstrating 2.75 GPA.
3. Copy of current resume.
4. Lesson plans written and taught in early field experiences and student teaching.
5. Examples of student work in video and/or photo formats.
7. Written evaluations from cooperating teachers, university supervising teachers, and methods class instructors.
8. Self-evaluations related to state and university teaching standards and based upon early field experience teaching and student teaching experiences.
10. Documentation of personal artwork.

**Area of Concentration Requirements and Enrollment Management**

In order to maintain the highest quality of service to our students, all areas (Ceramics, Cross-Disciplinary Studio, Digital Studio Practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography, Print and Narrative Forms, Sculpture, Design and Visual Communication and Art Education) may select their own enrollment management mechanisms. Options available to areas include portfolio review, gateway courses, registration prioritizing (ex: "seniors only" and/or "majors only" courses), higher GPA for the area of concentration, or other appropriate mechanisms. Students who successfully matriculate as BFA degree candidates should make themselves familiar with the requirements of their chosen area (as outlined in the undergraduate catalog). Students also should discuss area
requirements with area faculty to ensure that they understand fully what will be required of them.

**Appeal Process**

An appeal process is established for students who do not meet the department's criteria for admissions, classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request admission as an art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA Advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student, if necessary, before making a decision.

**Degree Requirements**

**Bachelor of Fine Arts (Studio Art).** The Bachelor of Fine Arts (Studio Art) degree requires a total of 120 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum (includes 12 cr. Art History)</td>
<td>45</td>
</tr>
<tr>
<td>First Year Program</td>
<td>18</td>
</tr>
<tr>
<td>Art Studios</td>
<td>51</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Senior Practicum</td>
<td>2</td>
</tr>
<tr>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

**Bachelor of Fine Arts (Studio Art) in Design and Visual Communication.** The Bachelor of Fine Arts in Design and Visual Communication degree requires a total of 130 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum (includes 12 cr. Art History)</td>
<td>45</td>
</tr>
<tr>
<td>First Year Program</td>
<td>18</td>
</tr>
<tr>
<td>Art Studios</td>
<td>63</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>130</strong></td>
</tr>
</tbody>
</table>

**Bachelor of Fine Arts (Art Education).** The Art Education program requires a total of 130 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum (includes 12 cr. Art History)</td>
<td>45</td>
</tr>
<tr>
<td>First Year Program</td>
<td>18</td>
</tr>
<tr>
<td>Art Studios</td>
<td>39</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>3</td>
</tr>
<tr>
<td>Art Education and Education Courses</td>
<td>25</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>130</strong></td>
</tr>
</tbody>
</table>

*Special notes: Art Education students are not required to take ART 604 (Professional Practices) or 605 (BFA Exhibition), but are encouraged to do so.*

**Bachelor of Arts (Art).** The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum (includes 12 cr. Art History)</td>
<td>45</td>
</tr>
</tbody>
</table>
Laptop Requirement. All entering Art & Design students are required to participate in the PSOA Laptop Program. Please see requirements posted on the PSOA Laptop Requirement web page: http://www4.uwm.edu/psoa/laptop.

Degree Programs

BACHELOR OF FINE ARTS (STUDIO ART)

This undergraduate degree prepares students for entrance into professional art fields. Once students meet the First Year Program requirements outlined above, they are admitted to the Art & Design program. In addition to satisfying the core curriculum, art students select studio courses from both 2D and 3D disciplines, take required art history courses, choose studio electives, and begin satisfying the requirements of their declared art area concentration. A choice of curricula is offered to permit students to concentrate in ceramics, cross-disciplinary studio, digital studio practice, fibers, jewelry and metalsmithing, painting and drawing, photography, print and narrative forms, or sculpture. Students must complete a minimum of 24 credits in their area of concentration but may take more by choosing additional studio electives in their area. In order to graduate, students must complete a 3-credit critical thinking course, a 3-credit capstone: Art 604 Professional Practices (2 cr.) and Art 605 BFA Exhibition (1 cr.). Students must complete a total of 75 credits of art to graduate with a BFA (Studio Art).

Courses

1. Art History: 12 cr. (These credits are part of the University Core Requirements. Six cr., Art History 101 and 102, count as Humanities GER.)
   - Art Hist 101 Ancient & Medieval Art and Architecture 3
   - Art Hist 102 Renaissance to Modern Art and Architecture 3
   - Art Hist Any Advanced Course 3
   - Art Hist Any Advanced Course 3

2. Studio Electives: 18 cr. Choose studio elective courses from any Art & Design area.

3. Critical Thinking: 3 cr.
   - Art 309 Issues in Contemporary Art 3

4. Senior Practicum and BFA Exhibition: 3 cr.
   - Art 604 Professional Practice 2
   - Art 605 BFA Exhibition 1

5. Area of Concentration Requirements: 24 cr.

CERAMICS

1. Ceramics Introductory Course: 3 cr.
2. Ceramics Studio Courses: 18 cr. from list:

Art 381 Throwing and Wheel Construction 3
Art 382 Building from the Figure in Clay 3
Art 383 Molds and Multiples in Ceramics 3
Art 384 Experimental Processes in Woodfiring I 3
Art 389 Ceramics Workshop: (Subtitled) 1-3
Art 481 Ceramics Special Topics and Portfolio I 3
Art 482 Ceramics Special Topics and Portfolio II 3
Art 483 Ceramics Special Topics and Portfolio III 3
Art 489 Ceramics Workshop: (Subtitled) 1-3
Art 584 Experimental Processes in Woodfiring II 3

3. Ceramics Capstone Course: 3 cr.

Art 583 Senior Project in Ceramics 3

Art BFA–Sample Curriculum in Ceramics

Freshman Year (Fall) First Year Program
(Includes OWC-A and QL-A Requirements)

Art 101 Drawing I 3
Art 106 Art Survey 3
Art 109 3D Concepts* 3
University Core1 3
University Core1 3
Subtotal 15

Freshman Year (Spring) First Year Program

*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

Art 102 Drawing II 3
Art 108 2D Concepts 3
Art 118 Digital Arts: Culture, Theory, Practice 3
OR
Art 281 Introduction to Ceramics* 3
University Core1 3
University Core1 3
Subtotal 15
Total Freshman Year 30

After 30 credits, students will be assigned a faculty advisor in addition to a PSOA advisor.

Sophomore Year (Fall)

Art 281 Introduction to Ceramics 3
OR
Admission to the Art & Design Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

**Sophomore Year (Spring)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 381</td>
<td>Throwing and Wheel Construction</td>
<td>3</td>
</tr>
<tr>
<td>Art 384</td>
<td>Experimental Processes in Woodfiring I</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 389</td>
<td>Ceramics Workshop: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 102</td>
<td>Renaissance to Modern Art and Architecture²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
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<tr>
<td>Subtotal</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Sophomore Year</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**Junior Year (Fall)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 381</td>
<td>Throwing and Wheel Construction</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 382</td>
<td>Building from the Figure in Clay</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 383</td>
<td>Molds and Multiples in Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 102</td>
<td>Advanced Art History Choice²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
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<tr>
<td>Subtotal</td>
<td></td>
<td>15</td>
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</table>

**Junior Year (Spring)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 384</td>
<td>Experimental Processes in Woodfiring I</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 381</td>
<td>Throwing and Wheel Construction</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 489</td>
<td>Ceramics Workshop: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 481</td>
<td>Ceramics Special Topics and Portfolio I</td>
<td>3</td>
</tr>
<tr>
<td>Art 309</td>
<td>Issues in Contemporary Art: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 102</td>
<td>Advanced Art History Choice²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Junior Year</strong></td>
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**Senior Year (Fall)**
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Art 382</td>
<td>Building from the Figure in Clay</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 383</td>
<td>Molds and Multiples in Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>Art 482</td>
<td>Ceramics Special Topics and Portfolio II</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art 604</td>
<td>Professional Practices</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>University Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Subtotal</strong></td>
<td><strong>14</strong></td>
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</tbody>
</table>

**Senior Year (Spring)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td>Art 583</td>
<td>Senior Project in Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Subtotal</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement: Six credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

2. The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

**CROSS-DISCIPLINARY STUDIO**

The Cross-Disciplinary concentration in Art & Design allows students to combine two studio areas. Students must select a “home” area of concentration, and then select a second area as the cross-disciplinary focus. Students must complete the area course requirements and Capstone course for their home concentration, and then fulfill at least 12 credits in their cross-disciplinary focus area (at least 6 of these credits must be at 300 level or above).

Students with a Cross-Disciplinary Studio major should follow the 4-year curriculum for their home concentration, and work with their advisor to schedule the coursework for their cross-disciplinary focus.

**DIGITAL STUDIO PRACTICE**

Students wishing to major in Digital Studio Practice must complete the following requirements:

a. Meet all Art & Design Department admission and minimum GPA requirements.

b. Complete Digital Studio Practice Introductory Requirements (3 credits): Art 212 (Introduction to Digital Studio Practice) and one other 200-level class (in your cross-disciplinary focus area; see below).

c. Pass Digital Studio Practice portfolio review. First opportunity to apply to Portfolio Review takes place at the completion of Art 212.

d. Complete 12 credits in a cross-disciplinary focus (6 of which must be at 300-level and above).

e. Students in Digital Studio Practice are required to have a laptop computer with required software beginning with Art 212. Visit [www.uwm.edu/psoa/admission/laptoprequirement](http://www.uwm.edu/psoa/admission/laptoprequirement) for more information.
1. Digital Studio Practice Introductory Course: 3 cr.

Art 212 Introduction to Digital Studio Practice 3

2. Digital Studio Practice Core Courses: 18 cr.

Part I. Required Core Course 1: 3 cr.

Art 326 Video and Audio Strategies for Artists and Designers 3

Part II. Required Core Course 2: 3 cr.

Art 315 Participatory Art and Social Practice 3
OR
Art 316 Interactive Art 3

Part III. Required Core Choices: 12 cr.
Select from list (subtitled classes may be taken twice with change of topic).

Art 224 Dynamic Typography 3
Art 315 Participatory Art and Social Practice 3
Art 316 Interactive Art 3
Art 318 Physical Computing 3
Art 324 Web Design 3
Art 327 Digital Media Workshop: (Subtitled) 3
Art 378 Industrial Processes 3
Art 393 Digital Printmaking 3
Art 405 Product Realization 3
Art 411 Advanced Digital Art: (Subtitled) 3
Art 418 Advanced Physical Computing: (Subtitled) 3
Art 426 Motion Graphics 3
Art 478 Digital Fabrication and Craft 3

3. Digital Studio Practice Capstone Course: 3 cr.

Art 618 Senior Project in Digital Studio Practice 3

4. Cross-Disciplinary Focus: 12 cr.
All Digital Studio Practice students must choose a secondary focus area within the Department of Art and Design, with which to combine their digital skill sets. Students must fulfill at least 12 credits in their cross-disciplinary focus area (at least 6 of these credits must be at 300-level or above).

Art BFA–Sample Curriculum in Digital Studio Practice

Freshman Year (Fall) First Year Program
(Includes OWC-A and QL-A Requirements)

Art 101 Drawing I 3
Art 106 Art Survey 3
Art 108 2D Concepts* 3
      University Core\textsuperscript{1} 3
      University Core\textsuperscript{1} 3
Subtotal 15
**Freshman Year (Spring) First Year Program**  
*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 102</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>Art 109</td>
<td>3D Concepts*</td>
<td>3</td>
</tr>
<tr>
<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Freshman Year</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

After 30 credits, students will be assigned a faculty advisor in addition to a PSOA advisor.

**Sophomore Year (Fall)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 212</td>
<td>Introduction to Digital Studio Practice*</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>200-level studio (Art 221, Art 231, 243, 253, 261, 271, 281, or 291)*</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>200-level Studio Elective (recommend cross-disciplinary focus)</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 101</td>
<td>Ancient and Medieval Art and Architecture²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

Admission to the Art & Design Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

*Digital Studio Practice Portfolio Review takes place at the completion of Art 212.*

**Sophomore Year (Spring)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 326</td>
<td>Audio and Video Strategies for Artists and Designers</td>
<td>3</td>
</tr>
<tr>
<td>Art 315</td>
<td>Participatory Art and Social Practice</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 316</td>
<td>Interactive Art</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective (recommend 200- or 300-level cross-disciplinary focus)</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 102</td>
<td>Renaissance to Modern Art and Architecture²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Sophomore Year</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
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**Junior Year (Fall)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>300+ Core Choice DSP Studio Course (Art 315, 316, 318, 324, 327, 378, 393, 405, or 426)</td>
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</tr>
<tr>
<td>Art</td>
<td>300+ Core Choice DSP Studio Course (Art 315, 316, 318, 324, 327, 378, 393, 405, or 426)</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective (recommend 300-level or above cross-disciplinary focus)</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist</td>
<td>Advanced Art History Choice² (recommend contemporary or new</td>
<td>3</td>
</tr>
</tbody>
</table>
media art course, or one related to architecture)
University Core\(^1\)

Subtotal 15

**Junior Year (Spring)**

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>300+ Core Choice DSP Studio Course (Art 315, 316, 318, 324, 327, 378, 393, 405, or 426)</td>
<td>3</td>
</tr>
<tr>
<td>Art 309</td>
<td>Issues in Contemporary Art: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist</td>
<td>Advanced Art History Choice(^2) (recommend contemporary or new media art course, or one related to architecture)</td>
<td>3</td>
</tr>
<tr>
<td>University Core(^1)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal 15

Total **Junior Year** 30

**Senior Year (Fall)**

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>300+ Studio Elective (cross-disciplinary focus)</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective (may include DSP core choices)</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective (may include DSP core choices)</td>
<td>3</td>
</tr>
<tr>
<td>Art 604</td>
<td>Professional Practices</td>
<td>2</td>
</tr>
<tr>
<td>University Core(^1)</td>
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<td>3</td>
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Subtotal 14

**Senior Year (Spring)**

<table>
<thead>
<tr>
<th>Course Type</th>
<th>Course Description</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Art 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td>Art 618</td>
<td>Senior Project in Digital Studio Practice</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective (may be Core Choice or cross-disciplinary focus)</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective (may be Core Choice or cross-disciplinary focus)</td>
<td>3</td>
</tr>
<tr>
<td>University Core(^1)</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core(^1)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Subtotal 16

Total **Senior Year** 30

---

1. Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement: Six credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

2. The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

**FIBERS**

1. Fibers Introductory Course: 3 cr.
   - Art 231 Introduction to Fibers 3

2. Fibers Core Courses: Select 18 cr. from list
Art 332  Woven Structure I  3
Art 333  Pliable Materials/Sculptural Form  3
Art 336  Paint, Print, and Dye on Fabric  3
Art 337  Screen-printing on Fabric  3
Art 431  Special Topics in Fibers: (Subtitled)  3
Art 432  Woven Structure II  3
Art 433  Digital Imaging for Fabric  3
Art 435  Mixed Materials: Concept/Object  3
Art 436  Cloth Construction â€“ Surface to Structure  3
Art 539  Fibers Independent Study  1-6

3. Fibers Capstone Course:  3 cr.

Art 531  Senior Project in Fibers  3

Art BFA–Sample Curriculum in Fibers

Freshman Year (Fall) First Year Program
( Includes OWC-A and QL-A Requirements)

Art 101  Drawing I  3
Art 106  Art Survey  3
Art 108  2D Concepts*  3
OR
Art 109  3D Concepts*  3
University Core¹  3
University Core¹  3
Subtotal  15

Freshman Year (Spring) First Year Program
*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

Art 102  Drawing II  3
Art 109  3D Concepts*  3
OR
Art 108  2D Concepts*  3
Art 118  Digital Arts: Culture, Theory, Practice  3
OR
Art 231  Introduction to Fibers*  3
University Core¹  3
University Core¹  3
Subtotal  15
Total  Freshman Year  30

After 30 credits, students will be assigned a faculty advisor in addition to a PSOA advisor.

Sophomore Year (Fall)

Art 231  Introduction to Fibers*  3
OR
Art 118  Digital Arts: Culture, Theory, Practice*  3
Art 200-level Studio  3
Admission to the Art & Design Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

Sophomore Year (Spring)

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>Art 337</td>
<td>Screen-printing on Fabric</td>
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<td>OR</td>
<td></td>
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<tr>
<td>Art 336</td>
<td>Paint, Print, and Dye on Fabric</td>
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<tr>
<td>Art 332</td>
<td>Woven Structure</td>
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<td>OR</td>
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<tr>
<td>Art 431</td>
<td>Special Topics in Fibers</td>
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<td>OR</td>
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<tr>
<td>Art 436</td>
<td>Mixed Materials: Concept/Object</td>
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<td>Renaissance to Modern Art and Architecture²</td>
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Junior Year (Fall)

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<td>Paint, Print, and Dye on Fabric</td>
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<td>OR</td>
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Junior Year (Spring)

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<td>OR</td>
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<tr>
<td>Art 432</td>
<td>Woven Structure II</td>
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<td>Art 435</td>
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<td>Art 309</td>
<td>Issues in Contemporary Art: (Subtitled)</td>
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Total Sophomore Year 30

Total Junior Year 30
Senior Year (Fall)

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<td>OR</td>
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<tr>
<td>Art 436</td>
<td>Cloth Construction “Surface to Structure”</td>
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Senior Year (Spring)

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¹Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement: Six credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

²The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

JEWELRY AND METALSMITHING

1. Jewelry and Metalsmithing Introductory Course: 3 cr.

<table>
<thead>
<tr>
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<th>Credits</th>
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<tbody>
<tr>
<td>Art 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
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2. Jewelry and Metalsmithing Core Courses: 18 cr.

Part I: Required Core Courses: 6 cr.

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<tr>
<td>Art 371</td>
<td>Construction and Fabrication in Jewelry and Metalsmithing</td>
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<tr>
<td>Art 474</td>
<td>Portfolio Development and Professional Practice in Metalsmithing</td>
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Part II: Required Core Choices: Select 12 cr. from list:

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<th>Course</th>
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<th>Credits</th>
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<tr>
<td>Art 372</td>
<td>The Multiple in Jewelry and Metalsmithing</td>
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<tr>
<td>Art 378</td>
<td>Industrial Processes &amp; Fabrication</td>
<td>3</td>
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<tr>
<td>Art 470</td>
<td>Metal Forming</td>
<td>3</td>
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<tr>
<td>Art 472</td>
<td>Color on Metal</td>
<td>3</td>
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</table>
Art 473  Special Topics in Jewelry and Metalsmithing (Subtitled)  3
Art 478  Digital Fabrication & Craft  3

3. Jewelry and Metalsmithing Capstone Course: 3 cr.

Art 575  Senior Project in Jewelry and Metalsmithing  3

4. 18 credits recommended electives, could include any of the following:

Art 279  Jewelry and Metalsmithing Workshop (Subtitled)  3
Art 379  Jewelry and Metalsmithing Workshop (Subtitled)  3
Art 473  Special Topics in Jewelry and Metalsmithing (Subtitled)  3
Art 479  Jewelry and Metalsmithing Workshop (Subtitled)  3
Art 309  Issues in Contemporary Art: Global Craft Culture  3

Art BFAâ€“Sample Curriculum in Jewelry and Metalsmithing

Freshman Year (Fall) First Year Program
(Includes OWC-A and QL-A Requirements)

Art 101  Drawing I  3
Art 106  Art Survey  3
Art 109  3D Concepts*  3
   University Core$^1$  3
   University Core$^1$  3
Subtotal  15

Freshman Year (Spring) First Year Program
*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

Art 102  Drawing II  3
Art 108  2D Concepts*  3
Art 271  Introduction to Jewelry and Metalsmithing*  3
   University Core$^1$  3
   University Core$^1$  3
Subtotal  15
Total  Freshman Year  30

Sophomore Year (Fall)

Art 118  Digital Arts: Culture, Theory, Practice*  3
Art 371  Construction and Fabrication in Jewelry and Metalsmithing  3
Art 378  Industrial Processes and Fabrication  3
OR
Art  Elective  3
Art Hist 101  Ancient and Medieval Art and Architecture$^2$  3
   1

Admission to the Art & Design Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

### Sophomore Year (Spring)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art 372</td>
<td>The Multiple in Jewelry and Metalsmithing</td>
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<td>Art</td>
<td>200-level Studio (Art 231, 261, or 281)</td>
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<tr>
<td>Art 378</td>
<td>Industrial Processes and Fabrication</td>
<td>3</td>
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<td>OR</td>
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<td></td>
</tr>
<tr>
<td>Art</td>
<td>Elective</td>
<td>3</td>
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<tr>
<td>Art Hist 102</td>
<td>Renaissance to Modern Art and Architecture</td>
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<td>University Core</td>
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<td><strong>Sophomore Year</strong></td>
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### Junior Year (Fall)

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<th>Course Title</th>
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<tbody>
<tr>
<td>Art 470</td>
<td>Metal Forming</td>
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<td>Art 473</td>
<td>Special Topics in Jewelry &amp; Metalsmithing: (Subtitled)</td>
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</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
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<tr>
<td>Art</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist</td>
<td>Advanced Art History choice</td>
<td>3</td>
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<tr>
<td></td>
<td>University Core</td>
<td>3</td>
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<td>Subtotal</td>
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### Junior Year (Spring)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art 472</td>
<td>Color on Metal</td>
<td>3</td>
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<tr>
<td>Art 474</td>
<td>Portfolio Development and Professional Practices in Jewelry and Metalsmithing</td>
<td>3</td>
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<td>Art 309</td>
<td>Issues in Contemporary Art: Global Craft Culture</td>
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<td>ArtHist</td>
<td>Advanced Art History choice</td>
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### Senior Year (Fall)

<table>
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<td>Art 604</td>
<td>Professional Practices</td>
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<td>University Core</td>
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</table>
Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement: Six credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

PAINTING AND DRAWING

1. Painting and Drawing Introductory Course: 3 cr.
   
   Art 243 Introduction to Painting 3

2. Painting and Drawing Core Courses: 18 cr.

Part I. Required Core Courses: 15 cr.

   Art 342 Introduction to Figure Drawing 3  
   Art 343 Figure Painting 3  
   Art 441 Advanced Drawing Strategies I 3  
   Art 443 Painting Strategies 3  
   Art 543 Painting Studio 3

Part II. Required Core Choices: Select 3 cr. from list

   Art 442 Figure Drawing Explorations 3  
   Art 541 Advanced Drawing Strategies II 3  
   Art 543 Painting Studio (recommended retake) 3

3. Painting and Drawing Capstone Course: 3 cr.

   Art 643 Senior Project in Painting 3
Art BFA Sample Curriculum in Painting and Drawing

Freshman Year (Fall) First Year Program
(Includes OWC-A and QL-A Requirement)

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<td>Art Survey</td>
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<td>Art 108</td>
<td>2D Concepts*</td>
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Subtotal: 15

Freshman Year (Spring) First Year Program
*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

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<td>3D Concepts*</td>
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<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
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Subtotal: 15
Total: 30

After 30 credits, students will be assigned a faculty advisor in addition to a PSOA advisor.

Sophomore Year (Fall)

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<td>Introduction to Figure Drawing</td>
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<td>Ancient and Medieval Art and Architecture²</td>
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Subtotal: 15

Admission to the Art & Design Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

Sophomore Year (Spring)

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Subtotal: 15
Total: 30
## Junior Year (Fall)

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Subtotal: 15

## Junior Year (Spring)

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Subtotal: 15

**Total Junior Year**: 30

## Senior Year (Fall)

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<td>Art 541</td>
<td>Advanced Drawing Strategies II</td>
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<td>OR</td>
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<td>Art 543</td>
<td>Painting Studio (recommend retake)</td>
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Subtotal: 14

## Senior Year (Spring)

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<td>Senior Project in Painting</td>
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<td>Art</td>
<td>Studio Elective</td>
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<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>University Core¹</td>
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</tr>
<tr>
<td>Art</td>
<td>University Core¹</td>
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</tbody>
</table>

Subtotal: 16

**Total Senior Year**: 30

---

1 Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement: Six credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.
PHOTOGRAPHY

Students wishing to major in photography must complete the following requirement:

Maintain a minimum grade of B- or better for all Photography core courses in the 24-credit area of concentration.

a. A student receiving a grade of less than B- in any of the area core courses must repeat the class and pass with a grade of B- or better to continue on in the Photography program. (One repeat only).

b. Upon receiving a second grade of less than a B- in any of the Photography core courses, the student will be dropped from the Photography program.

1. Photography Introductory Course: 3 cr.

Art 253 Introduction to Photography 3

2. Photography Core Courses: 18 cr.

Art 350 Color Photography 3
Art 352 Photographic Materials and Processes 3
Art 451 Special Topics in Photography: (Subtitled) 3
OR
Art 454 Narrative Photography 3
Art 456 Digital Imaging in Photography 3
Art 457 Photographic Techniques 3
Art 552 Studio Practice and Research in Photography 3

3. Photography Capstone Course: 3 cr.

Art 553 Senior Project in Photography 3

Art BFA’s “Sample Curriculum in Photography

Freshman Year (Fall) First Year Program
(Includes OWC-A and QL-A Requirement)

Art 101 Drawing I 3
Art 106 Art Survey 3
Art 108 2D Concepts* 3
University GER Core1 3
University GER Core1 3
Subtotal 15

Freshman Year (Spring) First Year Program
*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.
Art 102  
Drawing II  
3  
Art 118  
Digital Arts: Culture, Theory, Practice  
3  
Art 109  
3D Concepts  
3  
OR  
Art 253  
Introduction to Photography*  
3  
University Core$^1$  
3  
University Core$^1$  
3  
Subtotal  
15  
Total  
Freshman Year  
30

After 30 credits, students will be assigned a faculty advisor in addition to a PSOA advisor.

Sophomore Year (Fall)

Art 253  
Introduction to Photography  
3  
OR  
Art 109  
3D Concepts$^*$  
3  
Art  
200-level Studio (Art 231 or 261 or 271 or 281)  
3  
Art  
200-level Studio  
3  
Art Hist 101  
Ancient and Medieval Art and Architecture$^2$  
3  
University Core$^1$  
3  
Subtotal  
15

Admission to the Art & Design Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

Sophomore Year (Spring)

Art 350  
Color Photography  
3  
Art 352  
Photographic Materials and Processes  
3  
Art  
Studio Elective  
3  
Art Hist 102  
Renaissance to Modern Art and Architecture$^2$  
3  
University Core$^1$  
3  
Subtotal  
15  
Total  
Sophomore Year  
30

Junior Year (Fall)

Art 454  
Narrative Photography  
3  
Art 457  
Photographic Techniques  
3  
Art  
Studio Elective  
3  
Art Hist  
Advanced Art History choice$^2$  
3  
University Core$^1$  
3  
Subtotal  
15

Junior Year (Spring)
Art 456 Digital Imaging in Photography 3
Art 309 Issues in Contemporary Art: (Subtitled) 3
Art Studio Elective 3
Art Hist Advanced Art History choice 2 3
University Core 1 3
Subtotal 15
Total Junior Year 30

Senior Year (Fall)
Art 552 Studio Practice and Research in Photography 3
Art Studio Elective 3
Art Studio Elective 3
Art 604 Professional Practices 2
University Core 1 3
Subtotal 14

Senior Year (Spring)
Art 605 BFA Exhibition 1
Art 553 Senior Project in Photography (Capstone) 3
Art Studio Elective 3
Art Studio Elective 3
University Core 1 3
University Core 1 3
Subtotal 16
Total Senior Year 30

1 Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement: Six credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

2 The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

PRINT AND NARRATIVE FORMS

1. Print and Narrative Forms Introductory Course: 3 cr.
Art 291 Introduction to Print and Narrative Forms 3

2. Print and Narrative Forms Core Courses: 18 cr.
Part I. Required Core Course Choices: Select 15 credits from the following list:
Art 337  Screen-printing on Fabric  3
Art 350  Color Photography  3
Art 392  Lithography  3
Art 393  Digital Printmaking  3
Art 394  Intaglio  3
Art 398  Photo Printmaking  3
Art 397  Book Arts Workshop: (Subtitled)  3
Art 433  Digital Imaging for Fabric  3
Art 496  Sequence and Structure  3

Part II. Required Core Choice: Select 3 credits from Advanced Courses

Art 495  Advanced Printmaking: (Subtitled)  3
Art 595  Colloquium: Print and Narrative Forms  3

3. Print and Narrative Forms Capstone Course: 3 cr.

Art 597  Senior Project in Print and Narrative Forms  3

Art BFAâ€“Sample Curriculum in Print and Narrative Forms

Freshman Year (Fall) First Year Program
( Includes OWC-A and QL-A Requirement)

Art 101  Drawing I  3
Art 106  Art Survey  3
Art 108  2D Concepts*  3
University Core¹  3
University Core¹  3

Subtotal  15

Freshman Year (Spring) First Year Program
*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

Art 102  Drawing II  3
Art 118  Digital Arts: Culture, Theory, Practice  3
Art 109  3D Concepts  3
OR
Art 291  Introduction to Print and Narrative Forms*  3
University Core¹  3
University Core¹  3

Subtotal  15
Total  Freshman Year  30

After 30 credits, students will be assigned a faculty advisor in addition to a PSOA advisor.

Sophomore Year (Fall)
Art 291  Introduction to Print and Narrative Forms  3

OR

Art 109  3D Concepts*
Art 200-level Studio (recommend Art 253, Introduction to Photography)  3

Art Hist 101  Ancient and Medieval Art and Architecture  3

University Core  3

Subtotal  15

*Admission to the Art & Design Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

**Sophomore Year (Spring)**

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<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art 392</td>
<td>Lithography</td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 398</td>
<td>Photo Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>Art 350</td>
<td>Color Photography</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
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</tr>
<tr>
<td>Art Hist 102</td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
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<tr>
<td>University Core</td>
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Subtotal  15
Total  Sophomore Year  30

**Junior Year (Fall)**

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<tbody>
<tr>
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</tr>
<tr>
<td>Art 394</td>
<td>Intaglio</td>
<td>3</td>
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<tr>
<td>Art 393</td>
<td>Digital Printmaking</td>
<td>3</td>
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<tr>
<td>OR</td>
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<tr>
<td>Art 496</td>
<td>Sequence and Structure</td>
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<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
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<tr>
<td>Art Hist</td>
<td>Advanced Art History choice 2</td>
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<td>University Core</td>
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Subtotal  15

**Junior Year (Spring)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 392</td>
<td>Lithography</td>
<td>3</td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 393</td>
<td>Digital Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>Art 398</td>
<td>Photo Printmaking</td>
<td>3</td>
</tr>
<tr>
<td>Art 309</td>
<td>Issues in Contemporary Art: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist</td>
<td>Advanced Art History choice 2</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
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Subtotal  15
Total  Junior Year  30
### Senior Year (Fall)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Art 495</td>
<td>Advanced Printmaking: (Subtitled)</td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 595</td>
<td>Colloquium: Print and Narrative Forms</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art 604</td>
<td>Professional Practices</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td>14</td>
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### Senior Year (Spring)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Art 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td>Art 597</td>
<td>Senior Project in Print and Narrative Forms</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio</td>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>ArtHist Studio Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core¹</td>
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<td>3</td>
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<tr>
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<tr>
<td>Subtotal</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Senior Year</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

---

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2. The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

### SCULPTURE

1. **Sculpture Introductory Course: 3 cr.**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 261</td>
<td>Introduction to Sculpture</td>
<td>3</td>
</tr>
</tbody>
</table>

2. **Sculpture Required Core Courses: 18 cr.**

   **Part I. Select 6-12 credits from the following (retakable with change of topic):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 269</td>
<td>Sculpture Workshop: (Subtitled)</td>
<td>1-3</td>
</tr>
<tr>
<td>Art 368</td>
<td>Sculpture Practices: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 369</td>
<td>Sculpture Workshop: (Subtitled)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

   **Part II. Select 6-12 credits from the following (retakable with change of topic):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 468</td>
<td>Advanced Sculptural Practices: (Subtitled)</td>
<td>3</td>
</tr>
</tbody>
</table>
Art 469  Sculpture Workshop (Subtitled)  1-3

3. Sculpture Capstone Course: 3 cr.

Art 567  Senior Project in Sculpture  3

Art BFA “Sample Curriculum in Sculpture”

Freshman Year (Fall) First Year Program
(Includes OWC-A and QL-A Requirement)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art 101</td>
<td>Drawing I</td>
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<td>Art 106</td>
<td>Art Survey</td>
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<td>Art 109</td>
<td>3D Concepts*</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
<td></td>
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</table>

Subtotal 15

Freshman Year (Spring) First Year Program

*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art 102</td>
<td>Drawing II</td>
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<td>Art 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>Art 261</td>
<td>Introduction to Sculpture*</td>
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</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>University Core 1</td>
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<td>3</td>
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<tr>
<td>University Core 1</td>
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</table>

Subtotal 15

Total Freshman Year 30

After 30 credits, students will be assigned a faculty advisor in addition to a PSOA advisor.

Sophomore Year (Fall)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice*</td>
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<td>OR</td>
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<td></td>
</tr>
<tr>
<td>Art 261</td>
<td>Introduction to Sculpture</td>
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<tr>
<td>Art 200-level Studio</td>
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<td>Art 200-level Studio</td>
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<td>Art Hist 101</td>
<td>Ancient and Medieval Art and Architecture^2</td>
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<tr>
<td>University Core 1</td>
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Subtotal 15

Admission to the Art & Design Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

Sophomore Year (Spring)
<table>
<thead>
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<th>Course Code</th>
<th>Course Title</th>
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<td>200-level Studio</td>
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<td>Sculptural Practices: (Subtitled)</td>
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<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 102</td>
<td>Renaissance to Modern Art and Architecture²</td>
<td>3</td>
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<td>University Core¹</td>
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<td>Subtotal</td>
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<tr>
<td>Total</td>
<td>Sophomore Year</td>
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**Junior Year (Fall)**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Art 368</td>
<td>Sculptural Practices: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art 369</td>
<td>Sculpture Workshop: (Subtitled)</td>
<td>3</td>
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<tr>
<td>Art</td>
<td>Studio Elective</td>
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<tr>
<td>Art Hist</td>
<td>Advanced Art History choice²</td>
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<td>Subtotal</td>
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**Junior Year (Spring)**

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art 468</td>
<td>Sculptural Practices: (Subtitled)</td>
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</tr>
<tr>
<td>Art 469</td>
<td>Sculpture Workshop: (Subtitled)</td>
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<tr>
<td>Art 309</td>
<td>Issues in Contemporary Art: (Subtitled)</td>
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<tr>
<td>Art Hist</td>
<td>Advanced Art History choice²</td>
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<td></td>
<td>University Core¹</td>
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<tr>
<td>Total</td>
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**Senior Year (Fall)**

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>Art 468</td>
<td>Sculptural Practices: (Subtitled)</td>
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<td>Art</td>
<td>Studio Elective</td>
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<td>Art</td>
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**Senior Year (Spring)**

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<th>Course Title</th>
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<tr>
<td>Art 605</td>
<td>BFA Exhibition</td>
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<td>Art 567</td>
<td>Senior Project in Sculpture</td>
<td>3</td>
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<tr>
<td>Art</td>
<td>Studio Elective</td>
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</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
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<tr>
<td>Total</td>
<td>Senior Year</td>
<td>30</td>
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</table>
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**BACHELOR OF FINE ARTS (STUDIO ART) IN DESIGN AND VISUAL COMMUNICATION (130-Credit BFA Degree)**

Students in Design and Visual Communication are required to have a laptop computer for their course work by the first week of class, beginning with Art 221 (Introduction to Design) and for all subsequent courses in Design and Visual Communication. Visit http://www4.uwm.edu/psoa/laptop for more information.

To be admitted into Design and Visual Communication, students must pass Design and Visual Communication Portfolio Review after completing Art 124 (Design Survey), Art 221 (Introduction to Design) and Art 223 (Introduction to Typography) with a B- or better, a cumulative 2.67 GPA, and admission to Art & Design.

After admission into Design and Visual Communication, students must:

a. Complete Art 321 (GD I) and Art 323 (Typography II) with grade of B- or better to enroll in Art 421 and Art 423.

b. Complete Art 421 (GD II) and Art 422 (Design Methodologies) with a grade of B- or better to enroll in Art 529.

c. Complete Art 529 (Graphic Design III) as Senior Capstone Experience with a grade of B- or better.

d. Complete Art 606 (BFA Exhibition in Design) concurrently with Art 529.

e. Complete Art 324 (Web Design) and Art 325 (Multimedia Design) with a grade of B- or better (these required courses are not part of the core sequence, and may be taken any time after prerequisites are met).

f. Complete two of the four following courses (6 credits): Art 422 (Design Methodologies), Art 426 (Motion Graphics), Art 427 (Advanced Design Workshop) or Art 524 (Professional Practice) with a grade of B- or better.

g. Complete 9 credits of Graphic Design Expanded Studies (ES) all outside the Peck School of the Arts with a grade of C or better. See your advisor in the Peck School of the Arts Student Services Office for an updated list of recommended courses.

Students may petition to substitute for some or all of these courses. Likely candidates would be students with a high GPA who have passed out of freshman English; double majors; and students with a keen and credible interest in another area of study. Petitions to substitute for courses will be evaluated on a case-by-case basis by Design faculty and will be subject to an appeals process.

**Grading Requirements**

Subsequent to admission as a Design and Visual Communication major, a student receiving a grade of less than a B- in any of the area required courses must retake the class to continue in the program. Upon receiving a second grade of less than a B- in any of the area required courses, the student will be dropped from the Design and Visual Communication program.
1. D&VC Introductory Course: 3 cr.

Art 221 Introduction to Design 3

2. D&VC Core Courses: 24 cr.

Part I. Required Core Sequence: 15 cr.

Art 223 Introduction to Typography 3
Art 321 Graphic Design I 3
Art 323 Typography II 3
Art 421 Graphic Design II 3
Art 422 Design Methodologies 3

Part II. Required Non-Sequenced Courses: 9 cr.

Art 124 Design Survey 3
Art 324 Web Design 3
Art 325 Multimedia Design 3

Part III. Required Core Choices: select 6 cr. from list

Art 423 Experimental Typography 3
Art 424 Topics in Web, Interaction and Screen Design: (Subtitled) 3
Art 426 Motion Graphics 3
Art 524 Professional Practice in Design 3

3. Graphic Design Capstone Course: 3 cr.

Art 529 Graphic Design III â€“ Senior Capstone 3
Art 606 BFA Exhibition in Design 1

Art BFA in Graphic Design - Recommended Curriculum

Freshman Year (Fall) First Year Program
( Includes OWC-A and QL-A Requirement)

Art 101 Drawing I 3
Art 106 Art Survey 3
Art 108 2D Concepts* 3
University Core† 3
University Core† 3
Subtotal 15

Freshman Year (Spring) First Year Program

Art 102 Drawing II 3
Art 109 3D Concepts 3
### Digital Arts: Culture, Theory, Practice

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3 3</td>
</tr>
</tbody>
</table>

**Subtotal** 15

**Total Freshman Year** 30

*After 30 credits, students will be assigned a faculty advisor in addition to a PSOA advisor.*

### Sophomore Year (Fall)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>Art 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>200-level Studio <em>(Art 231 or 261 or 271 or 281)</em></td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 101</td>
<td>Ancient and Medieval Art and Architecture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3 3</td>
</tr>
</tbody>
</table>

**Subtotal** 15

*Admission to the Art & Design Program requires completion of the 30-credit Pre-Art program and two 200-level studio courses. All First Year Program courses must be completed in the first 45 credits.*

### Sophomore Year (Spring)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 223</td>
<td>Introduction to Typography</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art 324</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 102</td>
<td>Renaissance to Modern Art and Architecture&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3 3</td>
</tr>
</tbody>
</table>

**Subtotal** 18

**Total Sophomore Year** 33

*Portfolio Review for students in Design and Visual Communication Guidelines available from the area.*

### Junior Year (Fall)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 321</td>
<td>Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>Art 326</td>
<td>Multimedia Design</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 424</td>
<td>Topics in Web, Interaction and Screen Design: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>Studio Elective</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist</td>
<td>Advanced Art History choice&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3</td>
</tr>
<tr>
<td>University Core</td>
<td></td>
<td>3 3</td>
</tr>
</tbody>
</table>

**Subtotal** 15

### Junior Year (Spring)
Art 323  Typography II  3
Art 426  Motion Graphics  3
Art 309  Issues in Contemporary Art: (Subtitled)  3
Art  Studio Elective  3
Art Hist  Advanced Art History choice\(^2\)  3
     University Core\(^1\)  3
Subtotal  18
Total  Junior Year  33

**Senior Year (Fall)**

Art 421  Graphic Design II  3
Art 422  Design Methodologies  3
Art 524  Professional Practice in Design  3
Art  Studio Elective  3
Art  Studio Elective  3
     University Core\(^1\)  3
Subtotal  18

**Senior Year (Spring)**

Art 529  Graphic Design III (Capstone)  3
Art  Studio Elective  3
Art  Studio Elective  3
     University Core\(^1\)  3
     University Core\(^1\)  3
Art 606  BFA Exhibition in Design  1
Subtotal  16
Total  Senior Year  34

\(^1\) **Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum.** Core Curriculum Arts Distribution Requirement: Six credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

\(^2\) **The 12 Art History credits count in the Core Curriculum.** Six credits (Art History 101 and 102) count as Humanities GER.

**BACHELOR OF FINE ARTS (ART EDUCATION) -- (130-Credit BFA Degree)**

This undergraduate degree prepares students to teach art both in schools and in the community. Once students are admitted to the Art & Design program, they can apply to the Art Education program through Art Ed 227, Introduction to Art Education (see application procedures). In addition to satisfying the core curriculum, art education students also must take required art history and critical thinking courses, and three education courses. They are required to take studio courses from both 2D and 3D disciplines, and to focus their choices of studio electives to develop an emphasis in an area. In addition to top-notch studio preparation in a wide range of media, our students focus on urban issues and art education for social justice. Theory is integrated into practical early field and student teaching experiences. Throughout the program assessment is aligned with the requirements for licensure under “PI-34,” the state law governing
certification in Wisconsin. Students who demonstrate mastery of the knowledge, skills, and dispositions of professional educators during student teaching are recommended to the Department of Public Instruction in the State of Wisconsin for a PK4-12 teaching license.

**Bachelor of Fine Arts (Art Education).** The Art Education program requires a total of 130 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Curriculum</strong></td>
<td>45</td>
</tr>
<tr>
<td><strong>First Year Program</strong></td>
<td>18</td>
</tr>
<tr>
<td><strong>Studio Courses</strong></td>
<td>39</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>130</td>
</tr>
</tbody>
</table>

**Required Studio Courses** 24

**Art Studios**
- Art 231 Introduction to Fibers 3
- Art 342 Introduction to Figure Drawing 3
- Art 243 Introduction to Painting 3
- Art 253 Introduction to Photography 3
- Art 261 Introduction to Sculpture 3
- Art 271 Introduction to Jewelry and Metalsmithing 3
- Art 281 Introduction to Ceramics 3
- Art 291 Introduction to Print and Narrative Forms 3

**OR**

Other Approved Printmaking Course 3

**Elective Studio Courses** 15
- Art History 12*
- Critical Thinking Requirement 3
- Art Education Courses 25
- School of Education Courses 9**

Total 130

* 12 cr. Art History are included in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

** 9 cr. School of Education courses are included in the Core Curriculum. (See Academic Advisor.)

Special notes: Art Education students are not required to take Art 604 (Professional Practices) or Art 605 (BFA Exhibition), but are encouraged to do so.

Art Education students are required to have a laptop computer when they are accepted to the Art Education program and the 300-level methods courses.

**Art Education BFA – Sample Curriculum in Art Education**

**Freshman Year (Fall) First Year Program**
(Includes OWC-A and QL-A Requirement)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
</table>
| Art 101  | Drawing I | 3
| Art 106  | Art Survey | 3
| Art 109  | 3D Concepts* | 3
|          | University Core¹ | 3
|          | University Core¹ | 3

Subtotal 15

**Freshman Year (Spring) First Year Program**
*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 102</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>Art 108</td>
<td>2D Concepts*</td>
<td>3</td>
</tr>
<tr>
<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice*</td>
<td>3</td>
</tr>
<tr>
<td>OR Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 200-Level in Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OR University Core¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td>Freshman Year</td>
<td>30</td>
</tr>
</tbody>
</table>

After 30 credits, students will be assigned a faculty advisor in addition to a PSOA advisor.

**Sophomore Year (Fall)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>200-level studio in Art</td>
<td>3</td>
</tr>
<tr>
<td>OR Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice²</td>
<td>3</td>
</tr>
<tr>
<td>University Core¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

*Admission to the Pre-Art Ed Program requires completion of the 30-credit First Year Program and two 200-level studio courses.*

**Sophomore Year (Spring)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Ed 227</td>
<td>Introduction to Art Education</td>
<td>3</td>
</tr>
<tr>
<td>OR Art</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art</td>
<td>200-level studio in Art</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>200-level studio in Art</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>200-level studio in Art</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>200-level studio in Art</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 102</td>
<td>Renaissance to Modern Art and Architecture²</td>
<td>3</td>
</tr>
<tr>
<td>University Core¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>Total</td>
<td>Sophomore Year</td>
<td>36</td>
</tr>
</tbody>
</table>

**Junior Year (Fall)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Ed 227</td>
<td>Introduction to Art Education</td>
<td>3</td>
</tr>
</tbody>
</table>
OR
Art  200-level studio in Art  3
Art  200-level studio in Art  3
Art  200-level studio in Art  3
Art Hist Advanced Art History choice²  3
                University Core SOE¹  3
                University Core¹  3
Subtotal  18

Junior Year (Spring)

Art Ed 327 Art Education Theory and Practice: Elementary  6
Art       Studio Elective  3
Art 309 Issues in Contemporary Art: (Subtitled)  3
Art Hist Advanced Art History choice²  3
                University Core SOE¹  3
Subtotal  18
Total Junior Year  36

Senior Year (Fall)

Art Ed 328 Art Education Theory and Practice: Secondary  6
Art       Studio Elective  3
Art       Studio Elective  3
Art       Studio Elective  3
                  University Core SOE¹  3
Subtotal  18

Senior Year (Spring)

Art Ed 425 Student Teaching: Elementary  5
Art Ed 426 Student Teaching: Secondary  5
Subtotal  10
Total Senior Year  28

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum including 9 credits in the School of Education. Core Curriculum Arts Distribution Requirement: Six credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

² The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

BACHELOR OF ARTS (ART)

This undergraduate degree offers students a concentrated studio art experience to complement a broad exposure to the humanities, fine arts, social sciences, and natural sciences. Bachelor of Arts (Art) students have three course tracks to choose from: Studio Arts, Design Studies, and Community Arts.
During the freshman year, students will satisfy the First Year Program course requirements and begin to satisfy the university core curriculum requirements. Once students meet the First Year Program requirements outlined previously, they are admitted to the Art & Design program.

The courses required and recommended for each of the three tracks (Studio Arts, Design Studies, and Community Arts) are listed below. The “Recommended 4-Year Sequence” for each of the three tracks suggests course sequencing across all four years so students can meet the degree requirements. Students are required to complete 18 studio credits after the First Year Program, but may take more studio courses as part of their Directed Electives if they desire. Students in the Community Arts track are required to complete the 15-credit Cultures and Communities certificate program. Those credits can be counted as part of the University Core or as BA Directed Electives as desired in consultation with advising.

The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

**Bachelor of Arts (Art).** The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core (includes 12 cr Art History)</td>
<td>45</td>
</tr>
<tr>
<td>First Year Program</td>
<td>18</td>
</tr>
<tr>
<td>Art Studios</td>
<td>18</td>
</tr>
<tr>
<td>Critical Thinking</td>
<td>3*</td>
</tr>
<tr>
<td>BA Capstone</td>
<td>3**</td>
</tr>
<tr>
<td>Directed Electives</td>
<td>33</td>
</tr>
<tr>
<td>Total</td>
<td>120</td>
</tr>
</tbody>
</table>

* Art 309 Issues in Contemporary Art or Art 509 Visual Art Seminar
** Art 505 BA Project (1 cr) and Art 604 Professional Practices (2 cr)

**Laptop Computer Requirement**
Laptops are required for the Bachelor of Arts degree program. The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

**BACHELOR OF ARTS (ART) TRACKS:**

**BA STUDIO ARTS**

**6 credits Introductory Studios (any two courses from the following list):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 212</td>
<td>Introduction to Digital Studio Practice</td>
</tr>
<tr>
<td>Art 231</td>
<td>Introduction to Fibers</td>
</tr>
<tr>
<td>Art 243</td>
<td>Introduction to Painting</td>
</tr>
<tr>
<td>Art 253</td>
<td>Introduction to Photography</td>
</tr>
<tr>
<td>Art 261</td>
<td>Introduction to Sculpture</td>
</tr>
<tr>
<td>Art 271</td>
<td>Introduction to Jewelry and Metalsmithing</td>
</tr>
<tr>
<td>Art 281</td>
<td>Introduction to Ceramics</td>
</tr>
<tr>
<td>Art 291</td>
<td>Introduction to Print and Narrative Forms: (Subtitled)</td>
</tr>
</tbody>
</table>

**12 credits Studio Concentration (300-level and above):**
Students should select studio courses that best fit their curricular goals (academic double-major, minor, etc.) in conjunction with Art and Design Undergraduate adviser, followed by faculty in the areas of interest.
Directed Electives (33 credits studio and academic electives):
Directed Electives are intended to build upon and augment each student’s curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives.

BA DESIGN STUDIES

6-credits Introductory Studios:

Art 221 Introduction to Design
Art 222 Introduction to Typography

12 credits Studio Concentration (any four courses from the following list - 300-level and above):

Art 322 Illustration
Art 324 Web Design
Art 325 Multimedia Design
Art 424 Topics in Web, Interaction, and Screen Design: (Subtitled)
Art 427 Advanced Design Workshop: (Subtitled)
Art 528 Print Production and Presentation Techniques
Art 608 Art and Design Internship

Directed Electives (33 credits studio and academic electives):
Directed Electives are intended to build upon and augment each student’s curricular goals (academic double-major, minor, etc.). Depending on their curricular goals, students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives. The Art and Design Undergraduate Advisor has lists of suggested studio and academic courses to help students develop a cohesive curriculum in design.

BA COMMUNITY ARTS

6-credits Introductory Studios (any two courses from the following list):

Art 212 Introduction to Digital Studio Practice
Art 221 Introduction to Design
Art 231 Introduction to Fibers
Art 243 Introduction to Painting
Art 253 Introduction to Photography
Art 261 Introduction to Sculpture
Art 271 Introduction to Jewelry and Metalsmithing
Art 281 Introduction to Ceramics
Art 291 Introduction to Print and Narrative Forms: (Subtitled)
Art Ed 227 Introduction to Art Education

12 credits Studio Concentration (300-level and above):

Art 306 Introduction to Community Arts

Remaining 9 credits: students should select courses at the 300-level and above that best fit their curricular goals (academic double-major, minor, etc.) in conjunction with advising.
Directed Electives (33 credits studio and academic electives):
Directed Electives are intended to build upon and augment each student’s curricular goals (academic double-major, minor, etc.). Students in Community Arts track must complete the courses for the Cultures and Communities certificate (15 credits) as part of the Directed Electives or University Core. 150 Multicultural America (any discipline) is a prerequisite to ART 306 Introduction to Community Arts, and can be taken as a Directed Elective or as a University Core class in the Fall of the Sophomore year. Remaining credits: students should consult with advising in Art & Design, PSOA, and other schools on campus (double-majors, minors, etc.) to help guide their choice of electives.

BACHELOR OF ARTS (ART) — STUDIO ARTS

Recommended Four-Year Sequence in Studio Arts

Freshman Year (Fall) First Year Program
(Includes OWC-A and QL-A Requirement)

Art 101 Drawing I 3
Art 106 Art Survey 3
Art 109 3D Concepts* 3
University GER Core 1 3
University GER Core 1 3
Subtotal 15

Freshman Year (Spring) First Year Program
*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

Art 102 Drawing II 3
Art 108 2D Concepts 3
Art 118 Digital Arts: Culture, Theory, Practice* 3
University Core1 3
University Core1 3
Subtotal 15
Total Freshman Year 30

Sophomore Year (Fall)

Art 200-level studio 3
Art 200-level studio 3
Art Hist 101 Ancient and Medieval Art and Architecture2 3
Directed Elective3 3
University Core1 3
Subtotal 15

Admission to Art & Design requires completion of the 30-credit First Year Program and two 200-level studio courses.

Sophomore Year (Spring)
<table>
<thead>
<tr>
<th>Year</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sophomore</td>
<td>300 level Studio Concentration</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Art Hist 102</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Renaissance to Modern Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Directed Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Directed Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core</td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Total</td>
<td><strong>Sophomore Year</strong></td>
<td><strong>30</strong></td>
</tr>
</tbody>
</table>

**Junior Year (Fall)**

| Art        | 300-level and above Studio Concentration                                | 3       |
| Art Hist   | Advanced Art History choice                                             | 3       |
|            | Directed Elective                                                      | 3       |
|            | Directed Elective                                                      | 3       |
|            | University Core                                                        | 3       |
| Subtotal   |                                                                        | 15      |

**Junior Year (Spring)**

| Art        | 300-level and above Studio Concentration                                | 3       |
| Art 309    | Issues in Contemporary Art: (Subtitle)                                 | 3       |
| Art Hist   | Advanced Art History choice                                             | 3       |
|            | Directed Elective                                                      | 3       |
|            | University Core                                                        | 3       |
| Subtotal   |                                                                        | 15      |
| Total      | **Junior Year**                                                        | **30**  |

**Senior Year (Fall)**

| Art        | 300-level and above Studio Concentration                                | 3       |
| Art 505    | BA Project                                                             | 1       |
| Art 604    | Professional Practices                                                | 2       |
|            | Directed Elective                                                      | 3       |
|            | Directed Elective                                                      | 3       |
|            | University Core                                                        | 3       |
| Subtotal   |                                                                        | 15      |

**Senior Year (Spring)**

| Directed Elective | 3 |
| Directed Elective  | 3 |
| Directed Elective  | 3 |
| University Core    | 3 |
| À University Core   | 3 |
Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement. 6 credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

The 33 Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate adviser, followed by faculty in the areas of interest.

BACHELOR OF ARTS (ART) DESIGN STUDIES

Recommended Four-Year Sequence in Design Studies

Freshman Year (Fall) First Year Program
(Includes OWC-A and QL-A Requirements)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>Art 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>Art 109</td>
<td>3D Concepts*</td>
<td>3</td>
</tr>
<tr>
<td>University GER Core¹</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University GER Core¹</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Subtotal | 15 |

Freshman Year (Spring) First Year Program
* Note: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>Art 102</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>Art 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice*</td>
<td>3</td>
</tr>
<tr>
<td>University GER Core¹</td>
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<tr>
<td>University GER Core¹</td>
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</tr>
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</table>

Subtotal | 15 |

Total | Freshman Year | 30 |

Sophomore Year (Fall)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 124</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>Art 221</td>
<td>Introduction to Design</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 101</td>
<td>Ancient and Medieval Art and Architecture²</td>
<td>3</td>
</tr>
<tr>
<td>Directed Elective³</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>University GER Core¹</td>
<td>3</td>
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</tbody>
</table>

Subtotal | 15 |

Sophomore Year (Spring)

Admission to Art & Design requires completion of the 30 credit First Year Program and two 200-level studio courses.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art 223</td>
<td>Introduction to Typography</td>
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</tr>
<tr>
<td>Art Hist 102</td>
<td>Renaissance to Modern Art and Architecture²</td>
<td>3</td>
</tr>
<tr>
<td>Art</td>
<td>300-level and above Studio Concentration⁴</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Directed Elective³</td>
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### Junior Year (Fall)

<table>
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<th>Course Title</th>
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<tr>
<td>Art</td>
<td>300-level and above Studio Concentration⁴</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist</td>
<td>Advanced Art History Choice²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Directed Elective³</td>
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<td></td>
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### Junior Year (Spring)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Art</td>
<td>300-level and above Studio Concentration⁴</td>
<td>3</td>
</tr>
<tr>
<td>Art 309</td>
<td>Issues in Contemporary Art: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist</td>
<td>Advanced Art History Choice²</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Directed Elective³</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University GER Core¹</td>
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<td>Subtotal</td>
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<tr>
<td>Total</td>
<td><strong>Junior Year</strong></td>
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### Senior Year (Fall)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Art</td>
<td>300-level and above Studio Concentration⁴</td>
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<tr>
<td>Art 505</td>
<td>BA Project</td>
<td>1</td>
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<tr>
<td>Art 604</td>
<td>Professional Practices</td>
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<td>Directed Elective³</td>
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<td>Subtotal</td>
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</table>

### Senior Year (Spring)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>Directed Elective³</td>
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<td></td>
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<tr>
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<td>Subtotal</td>
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<td>15</td>
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</tbody>
</table>

### Total

<table>
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<tr>
<th>Year</th>
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<tr>
<td>Sophomore</td>
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<tr>
<td>Junior</td>
<td>30</td>
</tr>
<tr>
<td>Senior</td>
<td>30</td>
</tr>
</tbody>
</table>

¹ Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum Arts Distribution Requirement. Six credits are required in Peck School of the Arts courses.
outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

2 The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

3 The 33 Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate adviser, followed by faculty in the areas of interest.

4 The 12 credits of Studio Concentration for Design Studies courses (300-level and above) must be chosen from the approved list. Take note of prerequisites for advanced courses.

BACHELOR OF ARTS (ART) COMMUNITY ARTS

Recommended Four-Year Sequence in Community Arts

Freshman Year (Fall) First Year Program
(Includes OWC-A and QL-A Requirements)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>Art 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>Art 109</td>
<td>3D Concepts*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University GER Core¹</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University GER Core¹</td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Freshman Year (Spring) First Year Program
*NOTE: Check prerequisites if taking a 200-level studio in spring semester. Students can take a 200-level intro course here if prerequisites are completed in fall of freshman year. The last First Year Program course must then be taken in fall of sophomore year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 102</td>
<td>Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>Art 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>Art 118</td>
<td>Digital Arts: Culture, Theory, Practice*</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
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<tr>
<td></td>
<td>University Core¹</td>
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<td>Subtotal</td>
<td></td>
<td>15</td>
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<tr>
<td>Total</td>
<td>Freshman Year</td>
<td>30</td>
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</table>

Sophomore Year (Fall)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art</td>
<td>200-level studio</td>
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<tr>
<td>Art</td>
<td>200-level studio</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 101</td>
<td>Ancient and Medieval Art and Architecture²</td>
<td>3</td>
</tr>
<tr>
<td>xxx 150</td>
<td>Multicultural America (any discipline)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core¹</td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Admission to Art & Design requires completion of the 30-credit First Year Program and two 200-level studio courses.

Sophomore Year (Spring)
| Art 306 | Introduction to Community Arts | 3 |
| Art Hist102 | Renaissance to Modern Art and Architecture² | 3 |
| Directed Elective³ | 3 |
| Directed Elective³ | 3 |
| University Core¹ | 3 |

Subtotal 15

Total **Sophomore Year** 30

Junior Year (Fall)

| Art | 300-level and above Studio Concentration | 3 |
| Art Hist | Advanced Art History choice² | 3 |
| Directed Elective³ | 3 |
| Directed Elective³ | 3 |
| University Core¹ | 3 |

Subtotal 15

Junior Year (Spring)

| Art | 300-level and above Studio Concentration | 3 |
| Art 309 | Issues in Contemporary Art: (Subtitled) | 3 |
| Art Hist | Advanced Art History choice² | 3 |
| Directed Elective³ | 3 |
| University Core¹ | 3 |

Subtotal 15

Total **Junior Year** 30

Senior Year (Fall)

| Art | 300-level and above Studio Concentration | 3 |
| Art 505 | BA Project | 1 |
| Art 604 | Professional Practices | 2 |
| Directed Elective³ | 3 |
| Directed Elective³ | 3 |
| University Core¹ | 3 |

Subtotal 15

Senior Year (Spring)

| Directed Elective³ | 3 |
| Directed Elective³ | 3 |
| Directed Elective³ | 3 |
1 Consult your academic advisor in the Peck School of the Arts Student Services Office for distribution of the Core Curriculum. Core Curriculum Arts Distribution Requirement. Six credits are required in Peck School of the Arts courses outside of Art & Design. Three credits must be taken in two different Arts disciplines: Dance, Film, Music, or Theatre.

2 The 12 Art History credits count in the Core Curriculum. Six credits (Art History 101 and 102) count as Humanities GER.

3 The 33 Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate adviser, followed by faculty in the areas of interest. Courses required to satisfy the Cultures and Communities Certificate can be part of the Directed Electives or University Core.

**BACHELOR OF ARTS (ART) - HUBEI 3+1 BA in Design**

The Department of Art & Design and the Hubei University of Technology in Wuhan, China, have created a unique program for the students at Hubei University to finish their BA degree at UWM.

Hubei University of Technology students will enter the Department of Art & Design with 90 credits and will take the last 30 credits of their BA degree at UWM over two semesters. Hubei University students will enter the Design Studies track of the BA degree.

The TOEFL scores of Hubei students may determine whether or not they need remedial work in English before they begin the BA in Design Studies program.

**Laptop Computer Requirement**

Laptops are required for the 3+1 BA in Design Studies program. The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

The One Year Sequence of Courses for the Hubei 3+1 BA in Design Studies Follows:

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art 124*</td>
<td>Design Survey</td>
<td>3</td>
</tr>
<tr>
<td>Art 309</td>
<td>Issues in Contemporary Art: (Subtitled)</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Art Studio**</td>
<td>300-level and higher</td>
<td>3</td>
</tr>
<tr>
<td>Art 321*</td>
<td>Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>Art Studio**</td>
<td>300-level and above</td>
<td>3</td>
</tr>
<tr>
<td>Academic</td>
<td>GER course as needed</td>
<td>3</td>
</tr>
<tr>
<td>Subtotal</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Spring Semester**
Art 309  Issues in Contemporary Art: (Subtitled) 3
OR
Art Studio**  300-level and above 3
Art Studio**  300-level and above 3
Art Studio**  300-level and above 3
Art 505  BA Project 1
Art 604  Professional Practices 2
Academic  GER course as needed 3
Subtotal 15
Total  Senior 30

* Denotes required Art & Design course.
** Students may choose the Art Studio courses from the following list.

Recommended Art Studio courses for the Hubei 3+1 BA in Design Studies

Art 318  Physical Computing
Art 322  Topics in Illustration
Art 324  Web Design
Art 325  Multimedia Design
Art 326  Video and Audio Strategies for Artists and Designers
Art 337  Screen Printing on Fabric
Art 379  Jewelry and Metalsmithing Workshop: (Subtitled)
Art 393 (293)  Digital Printmaking
Art 397  Book Arts Workshop: (Subtitled)
Art 426  Motion Graphics
Art 427  Advanced Design Workshop: (Subtitled)
Art 473  Special Topics in Jewelry and Metalsmithing: (Subtitled)
Art 479  Jewelry and Metalsmithing Workshop: (Subtitled)
Art 496  Sequence and Structure
Art 528  Print Production and Presentation Techniques

BACHELOR OF ARTS (ART) MATC 2+2 BA IN DESIGN STUDIES

Milwaukee Area Technical College (MATC) AAS in Graphic Design is accepted as the first two years of a 4-year BA degree in Design Studies at UWM. Students need a 2.5 GPA from MATC and must have completed the OWC-A and QL-A requirements for UWM while at MATC.

MATC students will enter the Department of Art & Design with 69 credits, and will take 51 credits minimum to complete the 120-credit BA in Design Studies.

Laptop Computer Requirement
Laptops are required for the 2+2 BA in Design Studies program. The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

The Two-Year Sequence of Courses for the MATC 2+2 in Design Studies Follows:

Junior Year (Fall)

Art 124*  Design Survey 3
Art Hist 101  GER or Elective 3
Art 218  2-D Design Strategies  3  
Art Studio**  200-level  3  
Academic  GER course or elective  3  
Subtotal  15  

** Students may choose the Art Studio courses from the following list.**

**Recommended Art Studio Courses for the MATC 2+2 BA in Design Studies:**

Art 208  Color Concepts  
Art 212  Introduction to Digital Studio Practice  
Art 221 (228)  Introduction to Design  
Art 223  Introduction to Typography  
Art 224  Dynamic Typography  
Art 227  Design Workshop: (Subtitled)  
Art 231  Introduction to Fibers  
Art 238  Fiber Workshop: (Subtitled)  
Art 243  Introduction to Painting  
Art 249  Painting and Drawing Workshop: (Subtitled)  

* Denotes required Art & Design course  
** Students may choose the Art Studio courses from the following list.
MINOR IN ART AND DESIGN

A minor in Art and Design consists of a minimum of 18 art credits. Nine of the final 12 credits must be taken in residence at UWM. Art and Design Minor students must maintain an overall GPA of 2.5.

All students interested in enrolling as an Art and Design Minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses.

Required: 6 credits

Select either:

1. Art Minor

Art 101 Drawing I 3
Art 106 Art Survey 3

OR

2. Design Minor

Art 101 Drawing I 3
Art 124 Design Survey 3

Select Track: 3 cr.

2D Track

Art 108 2D Concepts 3
3D Track

Art 109  3D Concepts  3

Digital Track

Art 118  Digital Arts: Culture, Theory, and Practice  3

Remaining 9 credits must be chosen in consultation with the Department of Art and Design undergraduate advisor.

Part I: Select 3-6 credits from the following list:

Art 212  Introduction to Digital Studio Practice  3
Art 221  Introduction to Design  3
Art 223  Introduction to Typography  3
Art 224  Dynamic Typography  3
Art 231  Introduction to Fibers  3
Art 243  Introduction to Painting  3
Art 253  Introduction to Photography  3
Art 261  Introduction to Sculpture  3
Art 271  Introduction to Jewelry and Metalsmithing  3
Art 281  Introduction to Ceramics  3
Art 291  Introduction to Print and Narrative Forms  3

Part II: Select 3-6 credits of 300- and/or 400-level Art courses in consultation with the Art & Design Undergraduate Advisor and the Concentration Area Head (Ceramics, Digital Studio Practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography, Print and Narrative Forms, Sculpture).

Students need a minimum of 18 Art credits to complete the Art & Design minor.

For students who decide to become Art & Design majors based on all or part of the Art & Design Minor experience, the remaining 9 pre-art credits and the 200-level introductory studio courses would need to be completed prior to all of the remaining BA or BFA requirements.

Courses

Art

Art Education

Web Home Pages:
[ Peck School of the Arts ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Art
[ Peck School of the Arts ]
Copyright 2014 by the University of Wisconsin-Milwaukee, all rights reserved.
The Department of Dance offers three undergraduate degree programs which lead to a bachelor's degree in dance: two tracks in the Bachelor of Fine Arts in Dance (Performance and Choreography/Contemporary, and Performance and Choreography/Africa and the Diaspora), and the Bachelor of Arts (BA) in Dance. Also available is a minor in Somatics.

Please note that admissions to the Post-Baccalaureate Early Childhood through Adolescence (EC-A) Teaching Certificate in Dance have been temporarily suspended (effective with the 2014 spring semester).

Admission and Retention Requirements

Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Passing the Dance Entrance Audition is required for entrance into the Dance BA or BFA degree programs. Auditions are typically scheduled four times a year (October, February, April and June). If unsuccessful, students may re-audition, but are limited to auditioning twice per academic year.

Transfer students must complete a minimum of half of the required dance credits while in residence at UWM in order to graduate. The exact total is available upon admission to the program. Transcript evaluation by a dance advisor is required before placement into dance major courses.

Once accepted, students may enter the program during either fall or spring semesters, but are strongly encouraged to enter in the fall term to progress more smoothly through the BA or BFA curricular sequence.

To obtain more information about the admission requirements or to be placed on the mailing list for the entrance auditions, please call the Dance Office at (414) 229-2571 or email danceinfo@uwm.edu.

Each undergraduate dance major's coursework will be reviewed at the end of his/her sophomore year to determine continuance in the major, as part of the Mid-Program Portfolio Review. Students must maintain a minimum grade point average of 3.0 in the dance major.

All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department's academic requirements. Each student's ability to undertake the demands of the dance program, including his/her overall physical ability to perform in classes, auditions, rehearsals, and/or performances, will be a factor in the following: grading at the end of each semester; the audition/rehearsal/performance process for departmental
productions and outreach events; the Mid-Program Portfolio Review assessment; determining "probation" status; and potentially removing a student from the program.

Dance BA and BFA students are required to have a laptop computer after they have passed the Mid-Program Portfolio Review. The hardware and software must meet or exceed the current departmental requirements, as stated on the website (arts.uwm.edu/dance). Students are strongly encouraged to have laptops when they enter the program.

Dance EC-A students are required to have a laptop when they are accepted into the program. The hardware and software must meet or exceed the current departmental requirements, as stated on the website (www4.uwm.edu/psoa/dance).

Dance Program Mission Statement and Program Descriptions

The Department of Dance at UWM is committed to the development and training of skillful and creatively vibrant dance artists. Through its diverse faculty, curriculum and students, the department offers undergraduate and graduate dancers a learning environment that emphasizes creative artistic individuality and the development of professional skills.

The Performance & Choreography/Contemporary Track in the Bachelor of Fine Arts (BFA) in Dance prepares students to perform and create original dance choreography for theatrical productions. Dance BFA students complete a rigorous technical and creative curriculum designed to develop the student's individual artistic voice. Contemporary Track majors additionally study body/mind sciences, dance pedagogy, historical and cultural contexts for dance and the interactive collaboration skills necessary to bring dance to the theatre with a high degree of excellence.

The Performance & Choreography/Africa and the Diaspora Track in the Bachelor of Fine Arts (BFA) in Dance prepares students to perform and create original dance choreography for theatrical productions. Africa and the Diaspora majors complete a rigorous technical and creative curriculum with a foundation in Africa and the Diaspora techniques with cross training in ballet and modern. African Track majors additionally study body/mind sciences, dance pedagogy, historical and cultural contexts for dance and the interactive collaboration skills necessary to bring dance to the theatre with a high degree of excellence.

The Bachelor of Arts (BA) in Dance prepares students to teach participatory movement traditions in community settings, and to lead community groups in creating and performing their own dances and movement rituals. Community-based service-learning experiences provide many opportunities to realize these goals. The expectation is also that BA students will participate in a community dance/movement setting during undergraduate study.

The Minor in Somatics prepares students to undertake further study in an array of artistic, teaching/learning, and health/wellness disciplines. Students will study a wide range of somatic practices, including Laban Movement Analysis, Bartenieff Fundamentals, Alexander Technique, Pilates Method, Ideokinesis, Body-Mind Centering, Authentic Movement, Iyengar Yoga, and Martial Arts.

The post-baccalaureate Early Childhood through Adolescence (EC-A) Teacher Certification Program in Dance certifies students to teach dance in public schools in the state of Wisconsin. The program prepares teachers to create and deliver curriculum stressing the pillars of dance as an art form: performing dance in various styles, creating original dances, responding insightfully to observed dance performances, interconnecting dance skills/knowledge with other disciplines, and reflecting critically on one’s own dancing and dance knowledge.

Students in both the BFA and BA dance degree programs must complete the following Dance Foundations curriculum in their freshman year:

Dance Foundations Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dance 110</td>
<td>Introduction to the Art of Dance</td>
<td>3</td>
</tr>
<tr>
<td>Dance 111</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>Dance 113</td>
<td>Modern Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>Dance 135</td>
<td>Introduction to Dancemaking Skills</td>
<td>3</td>
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</tbody>
</table>
### BACHELOR OF FINE ARTS IN DANCE DEGREE REQUIREMENTS

Completion of 130 credits, fulfilling the following curriculum requirements:

- General University Core Curriculum, 45 cr. (includes Music 101 as part of PSOA credits)
- Required Dance Courses, 85 cr. (includes Dance Foundations credits)

### BFA PERFORMANCE & CHOREOGRAPHY/CONTEMPORARY TRACK DANCE CURRICULUM

#### Dance Technique Courses

**Modern Dance Technique** - minimum of 6 semesters (16 credits)
Chosen from Dance 113, 114, 213, 214, 317, 318 – 2 or 3 credits each.
(100-200 level technique classes taken for 3 credits; 300 level for 2 credits)

**Ballet** - minimum of 6 semesters (16 credits)
Chosen from Dance 111, 112, 211, 212, 311, 312 – 2 or 3 credits each.
(100-200 level technique classes taken for 3 credits; 300 level for 2 credits)

**Complementary Dance Technique** (African, Jazz, Tap, Musical Theatre) (4 credits).
Chosen from Dance 115, 116, 117, 122, 123, 217, 327, 427 – 2 credits each.
One Jazz or African technique class is required during sophomore year.

**Somatic and Conditioning Practices** (6 credits).
(Yoga, Pilates, Body Sense, Alexander Technique)
Chosen from Dance 103, 220, 321, 323, 403, 421, 623 – 2 or 3 credits each.

**Total Technique Credits** 42

#### Dance Creative Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>Dance 135</td>
<td>Introduction to Dancemaking Skills</td>
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<td>Dance 231</td>
<td>Music and Dancers</td>
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<td>Dance 233</td>
<td>Improvisation for Dancemaking</td>
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<td>Dance 352</td>
<td>Digital Media Portfolio for Dancers</td>
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<td>Dance 412</td>
<td>Dance Composition I</td>
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<td>Dance 413</td>
<td>Dance Composition II</td>
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<td>Dance 414</td>
<td>Dance Composition III or equivalent</td>
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<td>Dance 490*</td>
<td>Repertoire &amp; Ensemble</td>
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**Total Creative Credits** 22

#### Dance Academic Courses

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<td>Dance 209</td>
<td>Dance Production</td>
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<td>Dance 250</td>
<td>Dance Sophomore Seminar</td>
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Dance 251  Laban Movement Analysis 3
Dance 261  Dance Junior Seminar 0
Dance 309  Dance Production Practicum 1
Dance 314  Contemporary Dance History 3
Dance 350  Dance Senior Seminar 0
Dance 361  Dance in Elementary Education 3
OR
Dance 362  Dance in Secondary Education 3
Dance 371  Applied Anatomy 3
Dance 601  Senior Project 3
Total Academic Credits 21

*Students participating in department productions must be enrolled in one ballet, modern or Africa & the Diaspora technique class per department performance criteria.

Course of Study
Freshman Year (Includes Foundations Curriculum)
Fall Semester
Dance 111  Ballet I 3
Dance 113  Modern Dance Technique I 3
Dance 135  Introduction to Dancemaking Skills 3
Dance 192  Dance Freshman Seminar 0
Dance 209  Dance Production 2
University Core 6
Spring Semester
Dance 110  Introduction to the Art of Dance 3
Dance 112  Ballet II 3
Dance 114  Modern Dance Technique II 3
Dance 233  Improvisation for Dancemaking 3
Dance 309  Dance Production Practicum 1
University Core 3
Total  Freshman Year 33

Sophomore Year
Fall Semester
Dance 103, 321, or 323  Introduction to Iyengar Yoga, Alexander Technique, or Body Conditioning: Pilates 2
Dance 122 or 115  African Dance & Diaspora Technique I, or Jazz I 2
Dance 211  Ballet III 3
Dance 250  Dance Sophomore Seminar 0
Dance 412  Dance Composition I 3
Music 101  Fundamentals of Music (PSOA GER req.) 3
University Core 3
Spring Semester
Dance 213  Modern Dance Technique III 3
Dance 231  Music and Dancers 3
Dance 371  Applied Anatomy 3
Dance 490**  Repertoire and Ensemble 1
University Core 3
**Sophomore Year**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>Dance 261</td>
<td>Dance Junior Seminar</td>
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<td>Digital Media Portfolio for Dancers</td>
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<td>Dance 413</td>
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**Spring Semester**

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<td>Ballet VI</td>
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<td>Dance 361</td>
<td>Dance in Elementary Education</td>
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<td>Dance 362</td>
<td>Dance in Secondary Education</td>
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<td>Dance 541</td>
<td>History of African Dance Theory II</td>
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**Junior Year**

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<tr>
<td>Dance 317</td>
<td>Modern Dance Technique V</td>
<td>2</td>
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<td>Dance 314</td>
<td>Contemporary Dance History</td>
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<td>Dance 414</td>
<td>Dance Composition III</td>
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**Total**

**Junior Year**

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<tr>
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<td>Dance 317</td>
<td>Modern Dance Technique V</td>
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<td>Dance 314</td>
<td>Contemporary Dance History</td>
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**Spring Semester**

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<th>Course Title</th>
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<tr>
<td>Dance 103, 403, 323, or 421</td>
<td>Introduction to Iyengar Yoga, Intermediate Yoga for Dancers, Body Conditioning: Pilates, or Alexander Technique Practicum</td>
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<td>Dance 312</td>
<td>Ballet VI</td>
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<tr>
<td>Dance 362</td>
<td>Dance in Secondary Education</td>
<td>3</td>
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<td>Dance 541</td>
<td>History of African Dance Theory II</td>
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**Senior Year**

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<th>Course Title</th>
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<tr>
<td>Dance 103, 403, 323, or 421</td>
<td>Introduction to Iyengar Yoga, Intermediate Yoga for Dancers, Body Conditioning: Pilates, or Alexander Technique Practicum</td>
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<tr>
<td>Dance 312</td>
<td>Ballet VI</td>
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<td>Dance 350</td>
<td>Dance Senior Seminar</td>
<td>0</td>
</tr>
<tr>
<td>Dance 361</td>
<td>Dance in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dance 362</td>
<td>Dance in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>Dance 541</td>
<td>History of African Dance Theory II</td>
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<td>University Core</td>
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**Fall Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Dance 103, 403, 323, or 421</td>
<td>Introduction to Iyengar Yoga, Intermediate Yoga for Dancers, Body Conditioning: Pilates, or Alexander Technique Practicum</td>
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<tr>
<td>Dance 312</td>
<td>Ballet VI</td>
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<td>Dance 350</td>
<td>Dance Senior Seminar</td>
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</tr>
<tr>
<td>Dance 361</td>
<td>Dance in Elementary Education</td>
<td>3</td>
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<tr>
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<td>Dance 362</td>
<td>Dance in Secondary Education</td>
<td>3</td>
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<td>Dance 541</td>
<td>History of African Dance Theory II</td>
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<td>University Core</td>
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**Spring Semester**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Dance 115, 116, 117, 122, 123, 217, 327, or Dance for Musical Theatre I or II</td>
<td>Jazz Dance I or II, African Dance &amp; Diaspora Technique I or II, Tap I or II</td>
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<tr>
<td>Dance 318</td>
<td>Modern Dance Technique VI</td>
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<td>Dance 490</td>
<td>Repertoire and Ensemble I</td>
<td>1</td>
</tr>
<tr>
<td>Dance 601</td>
<td>Senior Project</td>
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<td>University Core</td>
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**Total**

**Senior Year**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
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<td>Jazz Dance I or II, African Dance &amp; Diaspora Technique I or II, Tap I or II</td>
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<td>Dance 318</td>
<td>Modern Dance Technique VI</td>
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<td>Dance 490</td>
<td>Repertoire and Ensemble I</td>
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<td>Dance 601</td>
<td>Senior Project</td>
<td>3</td>
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</table>

**Total Required Dance Credits**

85

**Per departmental policy, any time a student is cast in a faculty or guest artist work, he/she must enroll in Dance 490 for a minimum of 0 or 1 credit during the appropriate semester.**
**BFA PERFORMANCE & CHOREOGRAPHY/AFRICA AND THE DIASPORA TRACK DANCE CURRICULUM**

### Dance Technique Courses

**Modern Dance Technique** - minimum of 6 credits.  
Chosen from Dance 113, 114, 213, 214, 317, 318 – 2 or 3 credits each.  
(100-200 level technique classes taken for 3 credits; 300 level for 2 credits)

**Ballet** - minimum of 3 credits.  
Chosen from Dance 111, 112, 211, 212, 311, 312 – 2 or 3 credits each.  
(100-200 level technique classes taken for 3 credits; 300 level for 2 credits)

**Complementary Dance Technique** (Jazz Dance I, Tap I), 4 credits.  
Chosen from Dance 115, 117 – 2 credits each.

**African Dance & Diaspora Technique** – minimum of 6 semesters (16 credits).  
Chosen from Dance 122, 123, 222, 223, 322, 522 – 2 or 3 credits each.  
(100-level technique classes taken for 2 credits; 200-300 level for 3 credits)

**Somatic and Conditioning Practices** (4 credits).  
(Yoga, Pilates, Alexander Technique, Body Sense)  
Chosen from Dance 103, 220, 321, 323, 403, 421, 623 – 2 or 3 credits each

**Total Technique Credits** 33

### Dance Creative Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<td>Dance 135</td>
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<td>Dance 233</td>
<td>Improvisation for Dancemaking</td>
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<tr>
<td>Dance 231</td>
<td>Music and Dancers</td>
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<td>OR</td>
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<td>Dance 331</td>
<td>African Percussion Ensemble</td>
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<td>Digital Media Portfolio for Dancers</td>
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<td>Dance 412</td>
<td>Dance Composition I</td>
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<td>Dance 413</td>
<td>Dance Composition II</td>
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<td>Dance 414</td>
<td>Dance Composition III or equivalent</td>
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<td>Dance 490*</td>
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**Total Creative Credits** 22

### Dance Academic Courses

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<td>Dance 250</td>
<td>Dance Sophomore Seminar</td>
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<td>Dance 251</td>
<td>Laban Movement Analysis</td>
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<td>Dance 261</td>
<td>Dance Junior Seminar</td>
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<td>Dance 309</td>
<td>Dance Production Practicum</td>
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<td>Dance 313</td>
<td>History of Dance in the African Diaspora</td>
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*Students participating in department productions must be enrolled in one ballet, modern or Africa & the Diaspora technique class per department performance criteria.

**Course of Study**

**Freshman Year**

**Fall Semester**

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<td>African Dance and Diaspora Technique I</td>
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<td>Dance 135</td>
<td>Introduction to Dancemaking Skills</td>
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<td>Dance 209</td>
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**Spring Semester**

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<td>Dance 123</td>
<td>African Dance and Diaspora Technique II</td>
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<td>Improvisation for Dancemaking</td>
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**Sophomore Year**

**Fall Semester**

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</tr>
<tr>
<td>Dance 313</td>
<td>History of Dance in the African Diaspora</td>
<td>3</td>
</tr>
<tr>
<td>Dance 412</td>
<td>Dance Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Music 101</td>
<td>Fundamentals of Music (POSA GER req.)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>University Core</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Fall Semester</strong></td>
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</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Dance 222</td>
<td>African Dance and Diaspora Technique III</td>
<td>3</td>
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<tr>
<td>Dance 231</td>
<td>Music and Dancers</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>OR</td>
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<tr>
<td>Dance 331</td>
<td>African Percussion Ensemble</td>
<td>3</td>
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<tr>
<td>Dance 371</td>
<td>Applied Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>Dance 490**</td>
<td>Repertoire and Ensemble</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>University Core</td>
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<td>Total</td>
<td>Sophomore Year</td>
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<tr>
<td><strong>Junior Year</strong></td>
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<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dance 103, 321, or 323</td>
<td>Introduction to Yoga, Alexander Technique for the Performer, or Body Conditioning: Pilates</td>
<td>2</td>
</tr>
<tr>
<td>Dance 223</td>
<td>African Dance and Diaspora Technique IV</td>
<td>3</td>
</tr>
<tr>
<td>Dance 251</td>
<td>Laban Movement Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Dance 261</td>
<td>Dance Junior Seminar</td>
<td>0</td>
</tr>
<tr>
<td>Dance 352</td>
<td>Digital Media Portfolio for Dancers</td>
<td>1</td>
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<tr>
<td>Dance 413</td>
<td>Dance Composition II</td>
<td>3</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>University Core</td>
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<td><strong>Junior Year</strong></td>
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<td><strong>Senior Year</strong></td>
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<tr>
<td><strong>Fall Semester</strong></td>
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<tr>
<td>Dance 103, 321, or 323</td>
<td>Introduction to Iyengar Yoga, Alexander Technique for the Performer, or Body Conditioning: Pilates</td>
<td>2</td>
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<tr>
<td>Dance 350</td>
<td>Dance Senior Seminar</td>
<td>0</td>
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<tr>
<td>Dance 361</td>
<td>Dance in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dance 362</td>
<td>Dance in Secondary Education</td>
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<tr>
<td>University Core</td>
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<td>9</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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</tr>
<tr>
<td>Dance 490**</td>
<td>Repertoire and Ensemble I</td>
<td>1</td>
</tr>
<tr>
<td>Dance 522</td>
<td>African Dance and Diaspora Technique VI</td>
<td>3</td>
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<tr>
<td>Dance 601</td>
<td>Senior Project</td>
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<tr>
<td>University Core</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Senior Year</strong></td>
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</tbody>
</table>

**Per departmental policy, any time a student is cast in a faculty or guest artist work, he/she must enroll in Dance 490 for a minimum of 0 or 1 credit during the appropriate semester.**

**TOTAL REQUIRED DANCE CREDITS** | 85 |

**Suggested Classes for University Core Curriculum – Africa and the Diaspora Track**

**Humanities â€“ 6 cr.**

<p>| Africol 100 | Black Reality: Survey of African-American Society | 3 |
| Aricol 111 | Introduction to African-American History to 1865 | 3 |</p>
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Africol 112</td>
<td>Introduction to African-American History 1865 to the Present</td>
<td>3</td>
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<tr>
<td>Africol 205</td>
<td>Poetry of African, African-American, and Caribbean Writers</td>
<td>3</td>
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<tr>
<td>Africol 210</td>
<td>African-American Novel</td>
<td>3</td>
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<tr>
<td>Africol 235</td>
<td>African-Americans and South Africa</td>
<td>3</td>
</tr>
<tr>
<td>Africol 314</td>
<td>School in African-American Life</td>
<td>3</td>
</tr>
<tr>
<td>Art Hist 104</td>
<td>African, New World, and Oceanic Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>Ed Pol 314</td>
<td>School in African-American Life</td>
<td>3</td>
</tr>
<tr>
<td>English 150</td>
<td>Multicultural America</td>
<td>3</td>
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<tr>
<td>English 279</td>
<td>Introduction to Latino/a Literature: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>English 281</td>
<td>Introduction to African-American Literature: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>English 507</td>
<td>Studies in 20th Century Literature: Fictions of Multiculturalism</td>
<td>3</td>
</tr>
<tr>
<td>Ethnic 101</td>
<td>The Making of American Cultures: Africans, Europeans, and Indian Nations</td>
<td>3</td>
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<tr>
<td>Ethnic 102</td>
<td>Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity</td>
<td>3</td>
</tr>
<tr>
<td>Freshman Seminar</td>
<td>Course 192 in multiple departments: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Hist 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>Hist 266</td>
<td>Race, Racial Though, and Prejudice in the United States, 1607 to the Present</td>
<td>3</td>
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<tr>
<td>Hist 267</td>
<td>History of Latinos in the United States</td>
<td>3</td>
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<tr>
<td>Hist 272</td>
<td>Clues: History and Culture</td>
<td>3</td>
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<tr>
<td>L&amp;I Sci 210</td>
<td>Information Resources for Research</td>
<td>3</td>
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<tr>
<td>Philos 253</td>
<td>Philosophy of the Arts</td>
<td>3</td>
</tr>
<tr>
<td>Portugs 225</td>
<td>Understanding Brazil: (Subtitle)</td>
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<tr>
<td>Portugs 360</td>
<td>Brazilian Culture: (Subtitle)</td>
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<tr>
<td>Portugs 380</td>
<td>Luso-Brazilian Literature in Translation: (Subtitle)</td>
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<tr>
<td>Spanish 173</td>
<td>Introduction to Latin America</td>
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<tr>
<td>Spanish 225</td>
<td>Understanding the Hispanic World: (Subtitle)</td>
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<tr>
<td>Spanish 371</td>
<td>Introduction to Latino Literature in English</td>
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<td>Spanish 373</td>
<td>Topics in Latino Literature in English: (Subtitle)</td>
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<tr>
<td>Spanish 391</td>
<td>Social and Historical Issues in the Hispanic World: (Subtitle)</td>
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<tr>
<td>Spanish 470</td>
<td>Survey of Hispanic Literature and Civilization</td>
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**Social Sciences â€“ 6 cr.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Africol 163</td>
<td>African-American Concept of Self</td>
<td>3</td>
</tr>
<tr>
<td>Africol 215</td>
<td>Introduction to Black Social and Cultural Traditions</td>
<td>3</td>
</tr>
<tr>
<td>Africol 232</td>
<td>Survey of African Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>Africol 250</td>
<td>Poetry of African, Africa-American, and Caribbean Writers</td>
<td>3</td>
</tr>
<tr>
<td>Africol 334</td>
<td>Survey of Black American and Brazilian Societies</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 104</td>
<td>Lifeways in Different Cultures: A Survey of World Societies</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 250</td>
<td>Women’s Roles in Cross-Cultural Perspective</td>
<td>3</td>
</tr>
<tr>
<td>Commun 350</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
<tr>
<td>Econ 248</td>
<td>Economics of Discrimination</td>
<td>3</td>
</tr>
<tr>
<td>Ethnic 200</td>
<td>Racial Minorities in the United States</td>
<td>3</td>
</tr>
<tr>
<td>Hist 200</td>
<td>Historical Roots of Contemporary Issues: American Ghetto</td>
<td>3</td>
</tr>
<tr>
<td>Sociol 150</td>
<td>Multicultural America</td>
<td>3</td>
</tr>
<tr>
<td>Soc Wrk 665</td>
<td>Cultural Diversity and Social Work</td>
<td>3</td>
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</table>

**Arts â€“ 12 credits outside of Dance (3 fulfilled by Music 101 requirement)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Film 222</td>
<td>Basic Elements of Video</td>
<td>3</td>
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<tr>
<td>Film 420</td>
<td>Intermediate Media Arts Module: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Music 489</td>
<td>Workshop in Music: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Theatre 100</td>
<td>Introduction to Theatre</td>
<td>3</td>
</tr>
<tr>
<td>Theatre 113</td>
<td>Stage Combat</td>
<td>3</td>
</tr>
<tr>
<td>Theatre 281</td>
<td>Stage Management/Communication Tech</td>
<td>3</td>
</tr>
<tr>
<td>Theatre 460</td>
<td>Storytelling</td>
<td>3</td>
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</table>
**General University Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Bus Adm 100</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>Bus Adm 201</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Dance 116</td>
<td>Jazz Dance II</td>
<td>2</td>
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<tr>
<td>Dance 117</td>
<td>Tap II</td>
<td>2</td>
</tr>
<tr>
<td>Dance 319</td>
<td>Dance Service-Learning (public/private schools)</td>
<td>Var</td>
</tr>
<tr>
<td>Dance 497</td>
<td>Dance Study Abroad (Africa, Caribbean, Brazil, Peru)</td>
<td>Var</td>
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<tr>
<td>Dance 699</td>
<td>Independent Study</td>
<td>Var</td>
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<tr>
<td>Geog 462</td>
<td>Cultural Geography of Latin America</td>
<td>3</td>
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**BACHELOR OF ARTS IN DANCE DEGREE REQUIREMENTS**

Completion of 120 credits, fulfilling the following curriculum requirements:

- General University Core Curriculum, 45 cr. (includes Music 101 as part of PSOA credits)
- Required Dance Courses, 61 cr. (includes Dance Foundations credits)
- General Electives, 14 cr.

**BA DANCE CURRICULUM**

**Dance Technique and Somatics Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Dance 103</td>
<td>Introduction to Iyengar Yoga</td>
<td>2</td>
</tr>
<tr>
<td>Dance 111</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>Dance 113</td>
<td>Modern Dance Technique I</td>
<td>3</td>
</tr>
<tr>
<td>Dance 112, 211, and 212</td>
<td>Ballet II-IV</td>
<td>9</td>
</tr>
<tr>
<td>OR</td>
<td>Dance 114, 213, and 214</td>
<td>Modern Dance Technique II-IV</td>
</tr>
<tr>
<td>Dance 122</td>
<td>African Dance and Diaspora Technique I</td>
<td>2</td>
</tr>
<tr>
<td>OR</td>
<td>Dance 370</td>
<td>World Movement: Subtitle Hip Hop</td>
</tr>
<tr>
<td>Dance 220</td>
<td>Body Sense</td>
<td>3</td>
</tr>
<tr>
<td>Dance 370</td>
<td><strong>One subtitle from each choice below:</strong></td>
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<tr>
<td></td>
<td>Salsa/Merengue or Tango</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Martial Arts or Tai Chi</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Ballroom or Dances of the World</td>
<td>2</td>
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<tr>
<td><strong>Total Techniques and Somatics Credits</strong></td>
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**Dance Creative and Academic Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Dance 110</td>
<td>Introduction to the Art of Dance</td>
<td>3</td>
</tr>
<tr>
<td>Dance 135</td>
<td>Introduction to Dancemaking Skills</td>
<td>3</td>
</tr>
<tr>
<td>Dance 192</td>
<td>Dance Freshman Seminar</td>
<td>0</td>
</tr>
<tr>
<td>Dance 219</td>
<td>Arts in Community Service</td>
<td>1</td>
</tr>
<tr>
<td>Dance 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>Dance 250</td>
<td>Dance Sophomore Seminar</td>
<td>0</td>
</tr>
</tbody>
</table>
Dance 251 Laban Movement Analysis 3
Dance 261 Dance Junior Seminar 0
Dance 314 Contemporary Dance History 3
Dance 319 Dance Service-Learning 1
Dance 320 Rituals and Culture 3
Dance 350 Dance Senior Seminar 0
Dance 352 Digital Media Portfolio for Dancers 1
Dance 360 Movement and Learning 3
Dance 371 Applied Anatomy 3
Dance 420 Creating Community Rituals 3
Dance 601 Senior Project 3
Total Creative and Academic Credits 33

Recommended General Electives

Dance, Movement, and Theatre electives from the following Dance, Health Sciences (Sport & Recreation), and Theatre courses.

Dance 115 Jazz Dance I 2
Dance 117 Tap I 2
Dance 221 Body Sense II 3
Dance 313 History of Dance in the African Diaspora 3
Dance 323 Body Conditioning: Pilates Method 2
Dance 361 Dance in Elementary Education 3
Dance 490* Repertoire and Ensemble 0-3**
Dance 491 Repertory/Student Choreographer 1
Spt & Rec 114 Weight Training 1
Spt & Rec 115 Aerobic Dance 1
Theatre 460 Storytelling 3

* Students participating in department productions must be enrolled in one ballet, modern or Africa & the Diaspora technique class per department performance criteria.

**Per departmental policy, any time a student is cast in a faculty or guest artist work, he/she must enroll in Dance 490 for a minimum of 0 or 1 credit during the appropriate semester.

Course of Study
(Dance BA curriculum courses only; does not include University Core)

Freshman Year (Includes Foundations Curriculum)

Fall Semester
Dance 111 Ballet I 3
Dance 113 Modern Dance Technique I 3
Dance 135 Introduction to Dancemaking Skills 3
Dance 192 Dance Freshman Seminar 0
Dance 220 Body Sense 3

Spring Semester
Dance 110 Introduction to the Art of Dance 3
Dance 112 Ballet II 3
OR
Dance 114 Modern Dance Technique II 3
Dance 233 Improvisation for Dancemaking 3
Total Freshman Year 21
Sophomore Year

Fall Semester
Dance 103  Introduction to Iyengar Yoga  2
Dance 122  African Dance and Diaspora Technique I  2
OR
Dance 370  World Movement: Subtitle: Hip Hop  2
Dance 211  Ballet III  3
OR
Dance 213  Modern Dance Technique III  3
Dance 219  Arts in Community Service  1
Dance 250  Dance Sophomore Seminar  0
Music 101  Fundamentals of Music (PSOA GER req.)  3

Spring Semester
Dance 212  Ballet IV  3
OR
Dance 214  Modern Dance Technique IV  3
Dance 320  Rituals and Culture  3
Dance 370  World Movement: Martial Arts or Tai Chi  2
Dance 371  Applied Anatomy  3

Total  Sophomore Year  22

Junior Year

Fall Semester
Dance 251  Laban Movement Analysis  3
Dance 261  Dance Junior Seminar  0
Dance 420  Creating Community Rituals  3
Dance 352  Digital Media Portfolio for Dancers  1
Dance 360  Movement and Learning  3
Dance 370  World Movement: Salsa or Tango  2

Spring Semester
Dance 314  Contemporary Dance History  3
Dance 319  Dance Service-Learning  1
Dance 370  World Movement: Ballroom or Dances of the World  2

Total  Junior Year  18

Senior Year

Fall Semester
Dance 350  Dance Senior Seminar  0

Spring Semester
Dance 601  Senior Project  3

Total  Senior Year  3

TOTAL REQUIRED DANCE CREDITS  61
TOTAL IN COURSE OF STUDY (includes 3 PSOA GER CR.)  64

Somatics Minor Requirements

Admission and Continuation Requirements. Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Prior to completing 6 credits of the Somatics Minor coursework, students must apply for and be accepted into the minor (call the Dance Office at 414.229.2571 for the application form). No more than 6 credits will be applied toward the minor until after a student has been admitted and a Dance Faculty Advisor has been assigned. Students must maintain a 2.75 GPA overall to remain in the Somatics Minor.
All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department’s academic requirements. Each student’s ability to withstand the demands of the dance program, including his/her overall physical ability to perform in classes, auditions, rehearsals, and/or performances will be a factor in the following: grading at the end of each semester; the audition/rehearsal/performance process for departmental productions and outreach events; the Mid-Program Portfolio Review assessment; determining ‘probation’ status; and potentially removing a student from the program.

**Somatics Minor Curriculum**

**Required Courses in Dance**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dance 103</td>
<td>Introduction to Iyengar Yoga</td>
<td>2</td>
</tr>
<tr>
<td>Dance 122</td>
<td>African Dance and Diaspora Technique I</td>
<td>2</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dance 370</td>
<td>World Movement Traditions or dance equivalent</td>
<td>2</td>
</tr>
<tr>
<td>Dance 133</td>
<td>Creative Movement</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dance 135</td>
<td>Introduction to Dancemaking Skills</td>
<td>3</td>
</tr>
<tr>
<td>Dance 220</td>
<td>Body Sense</td>
<td>3</td>
</tr>
<tr>
<td>Dance 371</td>
<td>Applied Anatomy</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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**Electives in Dance** (please choose 15 cr. from the following):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Dance 221</td>
<td>Body Sense II</td>
<td>2</td>
</tr>
<tr>
<td>Dance 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>Dance 321</td>
<td>Alexander Technique for the Performer</td>
<td>2</td>
</tr>
<tr>
<td>Dance 251</td>
<td>Laban Movement Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Dance 323</td>
<td>Body Conditioning: Pilates Method</td>
<td>2</td>
</tr>
<tr>
<td>Dance 360</td>
<td>Movement and Learning</td>
<td>3</td>
</tr>
<tr>
<td>Dance 370</td>
<td>World Movement Traditions or dance equivalent</td>
<td>2</td>
</tr>
<tr>
<td>Dance 421</td>
<td>Alexander Technique Practicum</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total</strong></td>
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</tbody>
</table>

**Total Credits for Somatics Minor**  

28

**EC-A TEACHER CERTIFICATION PROGRAM IN DANCE REQUIREMENTS**

**Admission Requirements**

Formal admission to the EC-A (Early Childhood through Adolescence) Teacher Certification Program in Dance will only be granted after either a BA or BFA in Dance has been conferred, and passing scores have been earned in all three sections of the Pre-Professional Skills Test (PPST).

Current UWM undergraduate dance majors who are interested in seeking dance certification may apply any of the following courses, taken during their undergraduate studies, toward EC-A certification: Dance 360, either 361 or 362, and 411, along with any of the required School of Education EC-A courses. The remaining dance teaching methods classes, as well as student teaching, may be taken only after formal admission to the EC-A program.

Dance graduates holding a BA or BFA in Dance from institutions other than UWM who apply for admission to the Dance EC-A certification program:
1. May be subject to additional coursework.
2. Must provide two letters of recommendation, one of which must come from the applicant’s undergraduate dance program.
3. Must contact the UWM Dance Department to schedule their participation in an Intermediate or Advanced Modern Technique class taught by a full-time faculty member.
4. Must either provide a work sample of their own choreography, or arrange to perform a 1-2 minute example of their choreography for Dance faculty on the day in which they participate in the modern technique class.

For further information and to complete the paper application, please contact the Peck School of the Arts Student Services Office at 414-229-4763 or in the Theatre Building, Room 120.

Students must maintain a minimum grade point average of 3.0 in the dance coursework.

**DANCE EC-A CERTIFICATION CURRICULUM**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ed Psy 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>CurrIns 343</td>
<td>Teaching of Reading</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CurrIns 545</td>
<td>Reading in Secondary Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>ExcEduc 300</td>
<td>The Exceptional Individual</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ExcEduc 531</td>
<td>Inclusion for Secondary Education: Humanities, Arts, Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ExcEduc 605</td>
<td>Child, Learner, Disabilities</td>
<td>3</td>
</tr>
<tr>
<td>Dance 360</td>
<td>Movement and Learning</td>
<td>3</td>
</tr>
<tr>
<td>Dance 361</td>
<td>Dance in Elementary Education</td>
<td>3</td>
</tr>
<tr>
<td>Dance 362</td>
<td>Dance in Secondary Education</td>
<td>3</td>
</tr>
<tr>
<td>Dance 411</td>
<td>Field Work in Dance</td>
<td>2</td>
</tr>
<tr>
<td>Dance 485, 486</td>
<td>Student Teaching in Elementary/Secondary</td>
<td>10</td>
</tr>
</tbody>
</table>

**Total EC-A Certificate** 30

**ACT 31 Wisconsin Department of Public Instruction Requirement**

Choose one of the following options:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethnic 203</td>
<td>Western Great Lakes: American Indian Community Life</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hist 263</td>
<td>North American Indian History Since 1887</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthro 213</td>
<td>American Indian Peoples of Wisconsin</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>English 276</td>
<td>Introduction to American Indian Literature: (Subtitle “Literature, History, and Sovereignty of Upper Midwest Indians” only)</td>
<td>3</td>
</tr>
</tbody>
</table>

OR

Successful completion of the School of Education Act 31 workshop

**Certification Requirements**

1. Fulfill all Dance degree and other graduation requirements; complete graduation process.
2. Fulfill Fieldwork requirement.
3. Earn an overall GPA of 2.75, and 3.0 in Dance courses.
4. Passing score in all 3 sections of the PPST.
5. Successfully complete student teaching.
6. Demonstrate mastery of the knowledge, skills and dispositions necessary for a successful career in the field of dance education through the use of a teaching portfolio (see explanation below).

Teaching Portfolio

The Dance faculty and the Wisconsin Department of Public Instruction (DPI) require that students compile a teaching portfolio that demonstrates teaching proficiency. The portfolio will be completed as a part of their major dance education methods, fieldwork, and student teaching course requirements aligned with Wisconsin Teaching Standards and Urban Education principles. Evidence of teaching proficiency must include:

1. Record of PPST passing scores.
2. Transcript demonstrating overall 2.75 GPA, and 3.0 in dance classes.
3. Copy of current resume.
4. Lesson plans written and taught in fieldwork and student teaching courses.
5. Examples of student work in video and photo formats.
7. Written evaluations and completed assessment rubrics from cooperating teachers, university supervising teachers, and methods class instructors.
8. Self-evaluations based on early fieldwork and student teaching experiences.
9. Documentation of personal artistry.
10. Mastery of the 10 Wisconsin teaching standards.

Courses
Peck School of the Arts

Inter-Arts

- Courses: Fine Arts (FINEART)

COURSE OF STUDY

The BFA in Inter-Arts is designed to nurture and develop a mature interdisciplinary/multidisciplinary artist, critic, or scholar. The three tracks leading to the Inter-Arts BFA degree lay strong developmental foundations coupled with advanced project creation by students in all tracks. Each track provides a capstone experience in which the student reveals advanced interdisciplinary/multidisciplinary accomplishment as well as a unique personal voice.

Students majoring in Inter-Arts can choose one of three tracks: the Dual Discipline Track (Track 1), the Interdisciplinary Arts & Technology Track (Track 2), or the Musical Theatre Track (Track 3).

Laptop Requirement. All entering Interdisciplinary Arts & Technology (IAT) students are required to participate in the PSOA Laptop program. Please see requirements posted on the PSOA Laptop Requirement web page: www.uwm.edu/psoa/laptop.

The three Inter-Arts tracks leading to the degree of Bachelor of Fine Arts require a minimum of 120 credits for graduation distributed as follows:

1. Peck School of the Arts Inter-Arts major/Dual Discipline Track:

   | Core Curriculum | 45* |
   | Studio Courses  | 72  |
   | Electives       | 3   |
   | Total           | 120 |

2. Peck School of the Arts Inter-Arts major/Interdisciplinary Arts and Technology (IAT) track:

   | Core Curriculum | 45* |
   | IAT Courses     | 66  |
   | Electives       | 9   |
   | Total           | 120 |

3. Peck School of the Arts Inter-Arts major/Musical Theatre track:

   | Core Curriculum | 45* |
   | Musical Theatre Track Courses | 75  |
   | Electives         | 10  |
*All Inter-Arts BFA students who complete an introductory level course in four of the PSOA's five departments will have met the PSOA distribution requirement.

**DUAL DISCIPLINE TRACK (TRACK 1)**

Students must select two 36-credit options from the following five department curricula in order to complete the 72-credit studio course component of the Inter-Arts Track 1.

**Art Curriculum (36 cr)**

A portfolio review is required for admission. Please see admission requirements for Art & Design Program.

**Pre-Art Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ART 106</td>
<td>Art Survey</td>
<td>3</td>
</tr>
<tr>
<td>ART 108</td>
<td>2D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 109</td>
<td>3D Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**Areas of Concentration**

Students choose either one area (Option #1) or two areas (Option #2) of concentration from the following options:

- Ceramics
- Cross Disciplinary
- Digital Studio Practice
- Fibers
- Jewelry and Metalsmithing
- Painting and Drawing
- Photography
- Print and Narrative Forms
- Sculpture

**Option #1**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2xx</td>
<td>One intro-level course in area of concentration</td>
<td>3</td>
</tr>
<tr>
<td>ART 3xx/4xx</td>
<td>Five advanced-level courses in area of concentration</td>
<td>15</td>
</tr>
</tbody>
</table>

**Option #2**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2xx</td>
<td>Two intro-level courses from two different areas of concentration</td>
<td>6</td>
</tr>
<tr>
<td>ART 3xx/4xx</td>
<td>Four advanced-level courses in area of concentration</td>
<td>12</td>
</tr>
</tbody>
</table>

**Art & Design Capstone Requirement**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 604</td>
<td>Professional Practices</td>
<td>2</td>
</tr>
<tr>
<td>ART 605</td>
<td>BFA Exhibition</td>
<td>1</td>
</tr>
<tr>
<td><strong>Subtotal</strong></td>
<td></td>
<td><strong>3</strong></td>
</tr>
</tbody>
</table>

**Art Curriculum Total**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Art Curriculum Total</strong></td>
<td></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

**Dance Curriculum (36 cr)**
**Audition Requirement.** Students selecting the Inter-Arts Dance Curriculum option must pass an entry audition into the Dance program.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANCE 110</td>
<td>Introduction to the Art of Dance</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 135</td>
<td>Introduction to Dancemaking Skills</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 213</td>
<td>Modern III</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 214</td>
<td>Modern IV</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 233</td>
<td>Improvisation for Dancemaking</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 314</td>
<td>Contemporary Dance History</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 317</td>
<td>Modern V</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 318</td>
<td>Modern VI</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 412</td>
<td>Dance Composition I</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 415</td>
<td>Movement and New Media</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 601</td>
<td>Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 122</td>
<td>1 semester of cultural dance style chose from African Dances: (Subtitle)</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 370</td>
<td>Dances of the World: (Subtitle)</td>
<td>2</td>
</tr>
</tbody>
</table>

**Dance Curriculum Total** 36

All dance majors must maintain a 3.0 GPA in department courses to remain in the program. In addition, Dance Inter-Arts BFA candidates must pass a mid-program performance review for continuance in the program.

**Film/Video/Animation/New Genres Curriculum (36 cr)**

**Film/Video/Animation/New Genres Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 116</td>
<td>Experimentation with Media</td>
<td>3</td>
</tr>
<tr>
<td>FILM 117</td>
<td>Filmmaking Technologies &amp; Techniques</td>
<td>3</td>
</tr>
<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FILM 202</td>
<td>Current Topics in Media Arts Production</td>
<td>3</td>
</tr>
<tr>
<td>FILM 114</td>
<td>Film and Experience</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FILM 210</td>
<td>Concepts of Film Production</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal** 12

**Film/Video/Animation/New Genres Pre-Portfolio Studios (Students select two courses for a total of 6 credits)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 220</td>
<td>Basic Elements of Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Basic Elements of Video</td>
<td>3</td>
</tr>
<tr>
<td>FILM 255</td>
<td>Introduction to Digital Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

**Subtotal** 6

**Film/Video/Animation/New Genres Electives**

15 credits of electives selected from Film courses that are 300-level and above. To be taken after portfolio review. A minimum of 9 credits must be selected from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: (Subtitled)</td>
<td>3-9</td>
</tr>
<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module: (Subtitled)</td>
<td>3-9</td>
</tr>
<tr>
<td>FILM 460</td>
<td>Advanced Media Arts Module: (Subtitled)</td>
<td>3-9</td>
</tr>
</tbody>
</table>


Music Curriculum (36 cr)

Audition Requirement. Students selecting the Inter-Arts Music Curriculum option must pass an audition at the 200 level of proficiency.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 001  Fundamentals of Music*</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 123, 125, and Aural Theory I, Keyboard Harmony I, and Materials of Theory I (1 cr each)</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 127</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 124  Aural Theory II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 126  Keyboard Harmony II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 128  Materials of Theory II</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 211  General History of Western Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 212  General History of Western Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 307  General History of Western Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSPERF 2xx  Performance Instrument (4 semesters)</td>
<td>4</td>
</tr>
<tr>
<td>MUSPERF 101  Fundamentals of Piano**</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC xxx  Performing Organization Courses (4 semesters)</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC xxx  Music History Electives</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC xxx  Music Theory Electives</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC xxx  Music Electives</td>
<td>5</td>
</tr>
</tbody>
</table>

**Music Curriculum Total** 36

* May be required as determined by proficiency examination. If MUSIC 101 is required, the number of Music electives would be reduced to two credits.

** MUSPERF 001 may be waived by examination. If MUSPERF 001 is waived, a student may substitute an additional credit of Music electives or take an additional semester of MUSPERF 2xx.

Theatre Curriculum (36 cr)

Theatre Core

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 110  Acting I â€“ Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 213  Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 236  Production and Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 275  Performing Arts Management</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 305  The Theatrical Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 214  Stagecraft</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 225  Costume Construction</td>
<td>4</td>
</tr>
</tbody>
</table>

Pick any two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 321  The Theatre â€“ Beginnings Through Realism</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 322  The Theatre â€“ Modern and Contemporary Period</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 323  World Theatre</td>
<td>3</td>
</tr>
</tbody>
</table>

**Theatre Electives: 11 credits from the following electives**

Costume Option

Theatre Electives: 11 credits from the following electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Subtotal 25
THEATRE 304 Costume Design 3
THEATRE 325 Costume History 3
THEATRE 224 Makeup 3
THEATRE 343 Patternmaking I 3
THEATRE 401 Fabric Painting and Dyeing 3

Performance Option

THEATRE 106 Voice and Speech 3
THEATRE 108 Musical Theatre 3
THEATRE 111 Theatre Games 3
THEATRE 204 Participatory Theatre 3
THEATRE 230 Acting II â€“ Text and Performance 3
THEATRE 330 Acting Topics 3
THEATRE 460 Storytelling 3
THEATRE 472 Performance Workshop 2
THEATRE 410 Directing 3
THEATRE 699 Independent Study 2

Playwriting Option

THEATRE 359 Playwriting 3
THEATRE 459 Playwriting II 3
THEATRE 465 Applied Theatre 3

Technical Theatre Option

THEATRE 215 Properties Production 3
THEATRE 318 Scene Design 3
THEATRE 319 Scene Painting 3
THEATRE 337 Sound Production 3
THEATRE 338 Lighting Production 3
THEATRE 437 Sound Design 3

Theatre Curriculum Total 36

INTERDISCIPLINARY ARTS & TECHNOLOGY (IAT) (Track 2)

Admission Requirements

Students planning to pursue the IAT track of the Inter-Arts degree must meet the admission and degree requirements of the Peck School of the Arts. After completing the Inter-Arts/IAT core (12 cr) and the Pre-IAT Studios (12 cr), IAT track majors will have their portfolio reviewed for approval by the IAT Review Committee.

Inter-Arts/IAT BFA Degree Requirements

University Core Curriculum 45
Inter-Arts/IAT Requirements 66
Electives 9
BFA Degree in Inter-Arts/IAT Track 120
**IAT Requirements**

**Inter-Arts/IAT Core: 12 cr (included in University Core Curriculum)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice</td>
<td>3</td>
</tr>
<tr>
<td>FILM 116</td>
<td>Experimentation with Media</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 220</td>
<td>Introduction to Computers with Music</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 321</td>
<td>Alexander Technique for the Performer</td>
<td>3</td>
</tr>
</tbody>
</table>

**Pre-IAT Studios: 12 cr**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 218</td>
<td>2D Design Strategies</td>
<td>3</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Basic Elements of Video</td>
<td>3</td>
</tr>
<tr>
<td>FILM 255</td>
<td>Introduction to Digital Arts</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
<td>3</td>
</tr>
</tbody>
</table>

Portfolio review: After completing the Inter-Arts/IAT Core and Pre-IAT Studio requirements, students submit:
1. A portfolio of three projects: two projects from different IAT studio courses and one project in any medium;
2. A completed application form; and
3. A copy of their academic transcript.

The IAT Review Committee will consider the artistic strength of the portfolio projects, student performance in classes, and overall GPA. All materials must be received by the posted deadline at the end of fall and spring semesters. The IAT Review Committee consists of a minimum of one representative faculty member from each discipline and the program coordinator(s), with a maximum of six faculty members. Faculty who have worked with these students are encouraged to share impressions of student work, maturity, and growth.

**IAT Post-Portfolio Core: 15 credits**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 316</td>
<td>Interactive Installation and Performance</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 415</td>
<td>Movement and New Media</td>
<td>3</td>
</tr>
<tr>
<td>FILM 380</td>
<td>Media Arts Module: Physical Computing</td>
<td>3</td>
</tr>
<tr>
<td>FINEART 313</td>
<td>Programming for Artists</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 680</td>
<td>Special Studies in Music: (Subtitled)*</td>
<td>3</td>
</tr>
</tbody>
</table>

*Topics as approved on list maintained by IAT Coordinator*

**IAT Electives: 21 cr**

Courses are selected from the approved list maintained by the IAT Coordinator. Students must take course prerequisites or seek permission of instructor for admission.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>ART 224</td>
<td>Dynamic Typography</td>
<td>3</td>
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<tr>
<td>ART/FILM 259/459</td>
<td>Photography Workshop: (Subtitled)</td>
<td>3</td>
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<tr>
<td>ART 393</td>
<td>Digital Printmaking</td>
<td>3</td>
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<tr>
<td>ART 493</td>
<td>Advanced Digital Printmaking</td>
<td>3</td>
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<tr>
<td>ART 317</td>
<td>3D Imaging I</td>
<td>3</td>
</tr>
<tr>
<td>ART 517</td>
<td>3D Imaging II</td>
<td>3</td>
</tr>
<tr>
<td>ART 319</td>
<td>Hybrid Sculptural Forms: (Subtitled)*</td>
<td>3</td>
</tr>
<tr>
<td>ART 324</td>
<td>Web Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 326</td>
<td>Video and Audio Strategies for Artists &amp; Designers</td>
<td>3</td>
</tr>
<tr>
<td>ART 327</td>
<td>Digital Media Workshop: (Subtitled)*</td>
<td>3</td>
</tr>
<tr>
<td>ART/FILM 350</td>
<td>Color Photography</td>
<td>3</td>
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</table>
ART 402 Visual Art Workshop: (Subtitled)* 3
ART 427 Advanced Design Workshop: (Subtitled)* 3
FILM 380 Media Arts Module: (Subtitled)* 3
FILM 420 Intermediate Arts Module: (Subtitled)* 3
FILM 455 Integrated Film/Video Exploration 3
FILM 460 Advanced Media Arts Module: (Subtitled)* 3
FINEART 411 Time/Space II 3
FINEART 311 Spatial Interactivity I 3
FINEART 511 Spatial Interactivity II 3
MUSIC 301 Music Theory for Interdisciplinary Studies 3
MUSIC 328 Digital Synthesis and Systems II 3
MUSIC 420 Advanced Computing and Music 3
MUSIC 680 Special Studies in Music: (Subtitled)* 3

* Topics as approved on list maintained by IAT Coordinator

Theory and Context Courses: 6 cr
Electives (300-level or above from approved list)
Capstone Courses: 12 cr
FINEART 410 IAT Junior Project 6
FINEART 510 IAT Senior Project 6

IAT Junior and Senior Projects. Students must complete the projects in good standing and present their work in a public exhibition/screening at the end of the semester.

General Electives: 9 cr
Total Inter-Arts/IAT BFA Degree Credits 120

MUSICAL THEATRE TRACK (TRACK 3)

Admission Requirements
To be admitted in good standing, applicants (incoming freshmen, current, or transfer students) must meet general University academic requirements. In addition, applicants for the Musical Theatre Track of the Inter-Arts program must submit the following in one complete packet for review by Musical Theatre Track faculty in order to attain a live audition interview:

1. A completed application form;
2. Copies of high school (incoming freshmen) or college (current or transfer students) transcripts (unofficial copies are acceptable for this purpose); and
3. Two confidential letters of reference, preferably from instructors familiar with the student’s artistic and/or academic abilities. Letters should be submitted in signed and sealed envelopes and will remain confidential and the property of UWM.

Applicants are requested to submit these materials in one packet and may do so in person or by mail to the address listed below; they will not be accepted via email. This preliminary packet should be submitted separately from the initial application for admission to the University. The recommended deadline for submission is two weeks prior to the entrance audition dates posted on the website: arts.uwm.edu/musicaltheatre. Complete application packet should be submitted to: Musical Theatre Application, UWM Dance Department (Mitchell Hall, Room 345), PO Box 413, Milwaukee, WI 53201.

Entrance Audition
After submitting these materials, applicants to the Musical Theatre Track of the Inter-Arts BFA degree program must audition for entry into the Musical Theatre Track. Entrance audition dates are scheduled during the fall semester specifically for current and transfer students for entry in the spring and in the spring semester for all prospective students interested in entry the following fall. The audition consists of the following: a) a writing exercise; b) two prepared and contrasting vocal solos; c) a memorized theatrical monologue; d) learning and performing a group dance combination; and e) an optional movement solo. Students are strongly encouraged to begin the program in the fall term to progress most logically through the program. Applicants who demonstrate a level of maturity, experience, and professional performance potential in at least two of the three areas of study during the audition process have an excellent opportunity for acceptance into the program.

For more information about the Musical Theatre Track and the application and audition procedures, please visit: arts.uwm.edu/musicaltheatre.

Several required courses of the Musical Theatre Track will have placement-level testing before or during the first week of classes. This ensures that students are placed at the appropriate class level and receive the best training possible. Students who have extensive background in one or more of the three areas of study may test out of some courses and advance to a higher level of training, thus opening up credits for study in other related areas.

After they have been accepted into the program, students must schedule a Piano Proficiency Audition and a Theory Placement Exam to determine in which level of piano and music theory to enroll.

Piano Requirement. All Musical Theatre majors must take a Piano Proficiency audition upon entering. Depending on audition results, a student may be required to enroll in MUSPERF 001 Piano Fundamentals I & II, for up to two semesters. Proficiency for these courses requires a passing grade of B or better. If piano proficiency can be demonstrated through the Piano Proficiency audition, then two semesters of piano at the MUSPERF 100 level are required.

Theory Requirement. All Musical Theatre majors must take a Theory Placement Exam upon entering. Depending on exam results, a student may be required to enroll in MUSIC 101 Fundamentals of Music, or test into MUSIC 123 Aural Skills with 3 additional credits available toward electives. Proficiency for these courses requires a passing grade of C or better.

Once accepted, students successfully complete the program for the Musical Theatre Track and maintain a 2.75 GPA in the Musical Theatre program curriculum. Each semester, their academic and artistic growth is reviewed by the Musical Theatre Academic Committee (see Student Evaluation/Capstone Course section). Students are required to attend all classes, auditions, workshops, seminars, and performances arranged in conjunction with or as a part of their training in the Musical Theatre Track.

Transfer students must complete 40 Musical Theatre Track credits in residence at UWM in order to graduate. Level of ability must be evaluated by course instructors at the beginning of each course for proper level placement.

BFA IN INTER-ARTS: MUSICAL THEATRE TRACK

University Core Curriculum: 30 cr outside PSOA
Humanities - 6 cr
Social Sciences - 6 cr
Natural Sciences lab course - 6 cr (one lab course)
Cultural Diversity
Additional Electives - 12 cr

Inter-Arts Core Curriculum: 12 cr
12 credits in four of five PSOA departments
General Elective: 3 cr  
3 cr from outside or inside area of emphasis

Musical Theatre Track Core Curriculum: 75 cr

Musical Theatre Track Electives: 10 cr  
10 cr from listed Dance, Music, and Theatre courses

Total: 130 cr

**MUSICAL THEATRE TRACK CORE CURRICULUM**

Students majoring in the Inter-Arts BFA/Musical Theatre Track must take the following in order to fulfill their 12 Inter-Arts core curriculum requirements:

<table>
<thead>
<tr>
<th>Course Number(s)</th>
<th>Course Title(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART or FILM xxx</td>
<td>One introductory course from Art or Film</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 315</td>
<td>History of American Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 102</td>
<td>American Popular Music</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 110</td>
<td>Acting I: Fundamentals of the Actor’s Process</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td><strong>12</strong></td>
</tr>
</tbody>
</table>

Students in the Inter-Arts Musical Theatre Track will be trained thoroughly in the performance skills necessary to compete in the professional world of musical theatre. Included in this Track are a solid developmental and pedagogical foundation in music (voice, theory and musicianship, piano, large and small music ensembles); dance (history of the musical theatre art form, ballet, tap, jazz, and theatre dance); and theatre (acting, play analysis, and theatre production). Students will be expected to meet the high standards set at all developmental levels of the program, preparing them for what they will encounter in the professional world. In addition, students will be able to build on their preexisting talents in a dynamic and innovative arena.

Just as students should consistently rise to the level of excellence expected in each area of study, Musical Theatre Track majors also should apply themselves as much as possible in the areas in which they may have less experience, thus equalizing their personal talents and professional performance potential. Majors who do not demonstrate a level of advancement or improvement – either artistically, academically, or both in the program curriculum may not advance, may be placed on probation, and/or dropped from the program.

**Required Courses**

All students in the BFA in Inter-Arts: Musical Theatre Track are required to successfully complete the following courses:

<table>
<thead>
<tr>
<th>Course Number(s) and No. of Semesters</th>
<th>Course Title(s)</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 101</td>
<td>Theory Fundamentals</td>
<td>3</td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Skills</td>
<td>1</td>
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<tr>
<td>Choral Ensemble (2 semesters):</td>
<td>University Choir, Men’s Glee Club, Women’s Chorus, Concert Chorale, Gospel Choir (1 cr/semester)</td>
<td>2</td>
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<tr>
<td>MUSIC 44, 51, 52, 56, or 62</td>
<td></td>
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<tr>
<td>MUSIC 244</td>
<td>Basic Diction</td>
<td>1</td>
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<tr>
<td>Piano: MUSPERF 001 (2 semesters)</td>
<td>Piano Fundamentals â€“ Level I and II (1 cr/semester)</td>
<td>2</td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSPERF 101 (2 semesters)</td>
<td>Piano Lessons Level I and Level II (1 cr/semester)</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 140 (2 semesters)</td>
<td>Class Voice (2 cr/semesters)</td>
<td>4</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
<td>-------------</td>
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<td>---------</td>
</tr>
<tr>
<td>MUSPERF 111</td>
<td>Voice Lessons (1 cr/semester)</td>
<td>2</td>
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<tr>
<td>MUSPERF 311</td>
<td>Voice Lessons (2 cr/semester)</td>
<td>8</td>
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<tr>
<td>Ballet (3 semesters)</td>
<td>Ballet I, Ballet II, Ballet III, Ballet IV, Ballet V, Ballet VI (2 cr/semester)</td>
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</tr>
<tr>
<td>DANCE 111, 112, 211, 212, 311, or 312</td>
<td>Jazz I, Jazz II, Jazz III (2 cr/semester)</td>
<td>6</td>
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<tr>
<td>DANCE 115, 116, or 310</td>
<td>Tap I, Tap II (2 cr/semester)</td>
<td>4</td>
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<tr>
<td>DANCE 117 or 217</td>
<td>DANCE 327</td>
<td>2</td>
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<tr>
<td>DANCE 427</td>
<td>Dance for Musical Theatre I</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 224</td>
<td>Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 230</td>
<td>Acting II: Text and Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 231</td>
<td>Introduction to Voice and Speech</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 330 (2 semesters)</td>
<td>Acting Topics: (Subtitle) (3 cr/semester)</td>
<td>6</td>
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<tr>
<td>THEATRE 408</td>
<td>Acting for the Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>Performance credits: Fine Arts Workshop I, Fine Arts Workshop II, Repertoire and Ensemble, FINEART 489, Opera Theatre, Rehearsal and Performance, FINEART 589, DANCE 490, MUSIC 457, or THEATRE 475</td>
<td>3</td>
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<tr>
<td>FINEART 689</td>
<td>Senior Capstone: Musical Theatre</td>
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<td><strong>Total</strong></td>
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**Electives**

All students in the BFA in Inter-Arts: Musical Theatre Track are required to successfully complete 10 credits from the following courses:

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>DANCE 103</td>
<td>Introduction to Iyengar Yoga</td>
<td>2</td>
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<tr>
<td>DANCE 113</td>
<td>Modern Dance Technique I</td>
<td>2</td>
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<tr>
<td>DANCE 115</td>
<td>Jazz I</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 116</td>
<td>Jazz II</td>
<td>2</td>
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<tr>
<td>DANCE 211</td>
<td>Ballet III</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 212</td>
<td>Ballet IV</td>
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<tr>
<td>DANCE 310</td>
<td>Jazz III</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 321</td>
<td>Alexander Technique for the Performer</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 323</td>
<td>Body Conditioning: Pilates Method</td>
<td>2</td>
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<tr>
<td>DANCE 410</td>
<td>Jazz IV</td>
<td>2</td>
</tr>
<tr>
<td>DANCE 421</td>
<td>Alexander Technique Practicum</td>
<td>2</td>
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<tr>
<td>DANCE 489</td>
<td>Workshop in Dance: Choreography Skills for Musical Theatre</td>
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<tr>
<td>DANCE 490</td>
<td>Repertoire and Ensemble</td>
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<tr>
<td>DANCE 623</td>
<td>Conditioning for Dancers: Pilates II</td>
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</tr>
<tr>
<td>MUSIC 44</td>
<td>University Choir</td>
<td>1</td>
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<tr>
<td>MUSIC 51</td>
<td>Men’s Glee Club</td>
<td>1</td>
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<tr>
<td>MUSIC 52</td>
<td>Women’s Chorus</td>
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</tbody>
</table>
MUSIC 56   Concert Chorale  1
MUSIC 62   Gospel Choir  1
MUSIC 100  Music Literature  3
MUSIC 124  Aural Theory II  2
MUSIC 127  Materials of Theory I  1
MUSIC 128  Materials of Theory II  2
MUSIC 150  Beginning Guitar  3
MUSIC 151  Intermediate Guitar  3
MUSIC 310  Introduction to World Musics  3
MUSPERF 201  Lessons in Piano  1
MUSIC 457  Opera Theatre  1-2
THEATRE 214  Stagecraft  4
THEATRE 215  Properties Production  3
THEATRE 225  Costume Construction  4
THEATRE 236  Theatre Production and Design  3
THEATRE 275  Performing Arts Management  3
THEATRE 305  The Theatrical Experience  3
THEATRE 321  The Theatre â€“ Beginning Through Realism  3
THEATRE 322  The Theatre â€“ Modern and Contemporary Period  3
THEATRE 323  World Theatre  3
THEATRE 339  Stage Combat  3
THEATRE 410  Stage Directing  3
THEATRE 475  Rehearsal and Performance  1-3

SAMPLE CURRICULUM - REQUIRED COURSES IN 4-YEAR PLAN

Year 1

Fall Semester

DANCE 111   Ballet I  2
MUSIC 101   Theory Fundamentals  3
MUSIC 44, 51, 52, 56, 62  Choral Ensemble  1
MUSIC 244   Basic Diction  1
MUSPERF 001 or 101   Piano Fundamentals I or Piano Lessons  1
MUSIC 140   Class Voice  2
THEATRE 110  Acting I: Fundamentals of the Actor’s Process  3
FILM or ART xxx  Introductory Course in Art or Film  3
Total  17

Spring Semester

DANCE 111 or 112  Ballet I or II  2
MUSIC 123  Aural Theory I  1
MUSPERF 001 or 101  Piano Fundamentals or Piano Lessons  1
MUSIC 140  Class Voice  2
THEATRE 230  Acting II: Text and Performance  3
FINEART 489 or 589  Fine Arts Workshop I or II  2
Musical Theatre Elective  2
GER  3
Total  16
### Year 2
#### Fall Semester

<table>
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<th>Course Title</th>
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<tr>
<td>DANCE 111 or 112</td>
<td>Ballet I or II</td>
<td>2</td>
</tr>
<tr>
<td>MUSIC 44, 51, 52, 56, or 62</td>
<td>Choral Ensemble</td>
<td>1</td>
</tr>
<tr>
<td>MUSPERF 111</td>
<td>Voice Lessons</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 102</td>
<td>American Popular Music</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 330</td>
<td>Acting Topics: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 231</td>
<td>Introduction to Voice and Speech</td>
<td>3</td>
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<tr>
<td>GER</td>
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#### Spring Semester

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<tr>
<td>MUSPERF 111</td>
<td>Voice Lessons</td>
<td>1</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
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<tr>
<td>FINEART 489 or 589</td>
<td>Fine Arts Workshop I or II</td>
<td>2</td>
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<tr>
<td>Musical Theatre Electives</td>
<td></td>
<td>2</td>
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<tr>
<td>GER</td>
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<td>GER</td>
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### Year 3
#### Fall Semester

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<td>Jazz I or III</td>
<td>2</td>
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<tr>
<td>DANCE 117</td>
<td>Tap I</td>
<td>2</td>
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<tr>
<td>DANCE 315</td>
<td>History of the American Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>DANCE 327</td>
<td>Dance for Musical Theatre I</td>
<td>2</td>
</tr>
<tr>
<td>MUSPERF 311</td>
<td>Voice Lessons</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 408</td>
<td>Acting for Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>GER</td>
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#### Spring Semester

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<tr>
<td>DANCE 217</td>
<td>Tap II</td>
<td>2</td>
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<tr>
<td>MUSPERF 311</td>
<td>Voice Lessons</td>
<td>2</td>
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<tr>
<td>FINEART 489 or 589</td>
<td>Fine Arts Workshop I or II</td>
<td>2</td>
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<tr>
<td>Musical Theatre Electives</td>
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<tr>
<td>GER</td>
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<td>GER</td>
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### Year 4
#### Fall Semester

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<th>Course Title</th>
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<tbody>
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<td>DANCE 427</td>
<td>Dance for Musical Theatre II</td>
<td>2</td>
</tr>
<tr>
<td>MUSPERF 311</td>
<td>Voice Lessons</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 330</td>
<td>Acting Topics: (Subtitle)</td>
<td>3</td>
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Musical Theatre Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSPERF 311</td>
<td>Voice Lessons</td>
<td>2</td>
</tr>
<tr>
<td>FINEART 489 or 589</td>
<td>Fine Arts Workshop I or II</td>
<td>2</td>
</tr>
<tr>
<td>FINEART 689</td>
<td>Senior Capstone: Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 224</td>
<td>Makeup</td>
<td>3</td>
</tr>
<tr>
<td>GER</td>
<td></td>
<td>3</td>
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<tr>
<td>GER</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Total for Program 130

Spring Semester

Student Evaluation. Musical Theatre majors who do not demonstrate a consistent level of artistic and academic improvement and at least a 2.75 GPA in the Musical Theatre program curriculum may not advance, may be placed on probation, and/or dropped from the program.

End-of-Semester Review Process. The Musical Theatre Academic Committee, which consists of a minimum of one representative from each discipline, will assess and share the student's academic and artistic growth through individual conferences at the end of each semester.

Performance Requirements. All majors are required to audition for all musical theatre productions presented in conjunction with the program. They are also encouraged to audition for other performance opportunities in the Departments of Dance, Music, and Theatre.

Musical Theatre Track Senior Project/Capstone (FA 689 – Senior Capstone: Musical Theatre). Students are expected to create and present a juried senior project in musical theatre for performance in their senior year. It must reflect the student's artistic growth and high level of performance excellence in music, dance, and theatre.

Appeal Process
Any Musical Theatre Track student who is dropped from the program has the right to appeal. The appeals committee will consist of full-time tenure track or tenured faculty from the Peck School of the Arts Dance, Music, and Theatre departments, a faculty member of the student’s own choosing, and the Musical Theatre Track coordinator. In addition, a Peck School of the Arts Student Services advisor will be present as a nonvoting member. A student’s next recourse is to the BFA Inter-Arts degree coordinator, the associate dean, and the dean.

Courses
Undergraduate Programs

The various undergraduate curricula lead to the Bachelor of Fine Arts in Music, Bachelor of Fine Arts in Music Education, or Bachelor of Arts in Music degree. The following courses of study are available:

Music Performance. A curriculum in voice, keyboard, or another instrument that prepares the student for both professional performance and studio teaching.

Jazz Studies. A curriculum that prepares the student for professional jazz performance and studio teaching in jazz.

Music Education. A curriculum in music performance, history, theory, and education, and certification by the Wisconsin Department of Public Instruction, that prepares the student to teach and supervise music in the public schools.
Music History and Literature. A curriculum that focuses on the historical and critical study of music and prepares the student for specialization and graduate work in musicology, music librarianship, and music criticism.

Music Composition and Technology. A curriculum that prepares the student for specialization in creative musical writing and related analytical skills and concepts, in conjunction with specific courses of study in microcomputers, electronic music-based software applications, MIDI, sound synthesis, and pedagogy.

Bachelor of Arts in Music. A general music degree designed specifically for students with talent and interest in music that allows them the flexibility to take a minor in another subject (such as Business) or a second major.

Graduate Programs

The various graduate curricula lead to the Master of Music or Master of Fine Arts degree with concentrations in Music Performance, Conducting, Music Theory, Music History and Literature, and Music Education. (See the Graduate School Bulletin for details.)

The Leonard Sorkin International Institute of Chamber Music is a two-year program leading to a Certificate in Chamber Music Performance.

Music for the Nonmajor

While professional training is the main thrust of the UWM music curricula, the department offers many personal enrichment courses for the nonmusic major. UWM students have the opportunity to participate in a wide range of performing organizations such as the Concert Chorale, Jazz Band, Symphony Band, Symphony Orchestra, University Band, University Choir, Wind Ensemble, Women's Choir, Men's Glee Club, Gospel Choir, and University Community Orchestra.

Private or class music lessons are also offered to the nonmusic major under the following conditions:

1. A successful audition;
2. Consent of instructor and availability of instructional time;
3. Concurrent registration in an approved Music Performance organization. For further information contact the Department of Music at (414) 229-5162.

Admission, Audition, and Scholarship Procedures

Throughout the year, the Music Department schedules new student audition days. In addition to meeting the general University admission requirements, a prospective music degree candidate must successfully complete an audition in his or her primary performance area (Principal Instrument), and take a theory placement examination. Composition majors must submit original works to the Composition faculty for consideration. In certain degree programs, students also must successfully complete an audition at the 100 level in a secondary performance area (Secondary Instrument) as required.

Prospective students who lack basic aural, theory, and fundamental keyboard skills must register for Music 001, Theory Fundamentals, and Mus Perf 001, Keyboard Fundamentals, in their first semester of study. Students who receive a final grade of B or better in these courses may subsequently enroll in Music 123, 125, and 127 with the approval of the theory faculty.

Admission to the music major is considered provisional, pending progress in music theory and Principal Instrument (and Secondary Instrument, if appropriate) during the freshman year. Students who are not enrolled in Principal Instrument and Music 123, 125, 127 or higher in their third semester cannot be considered music majors.
If you wish to be considered for a music scholarship, you are encouraged to audition no later than March of the school year preceding your intended matriculation. Lists of suggested repertoire, which can serve as a helpful guideline for your audition, can be obtained from the Music Department. For further information or to schedule an audition, contact the Music Department at (414) 229-5162.

**Music Degree Requirements**

All music curricula for the BFA require 125-130 credits, distributed as follows: Music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-5 credits. The BA in music requires 120 credits, distributed as follows: Music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

**Performance Organization Requirement.** All music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. For the purpose of fulfilling the Performance Organization requirement, the Department of Music recognizes the following approved major performing organizations: Concert Chorale, Symphony Band, Symphony Orchestra, University Band, University Choir, Wind Ensemble, and Women's Choir.

(Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

**Performance Organization Requirement for Transfer Students.** Credits from an accredited college/university for performing organizations may be granted as follows:

1. All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;

2. Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and

3. Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

**Recital and Convocation Attendance.** All music majors, except transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending campus recitals (one attendance credit per recital), the weekly departmental Convocation (five attendance credits per semester), and off-campus recitals (one attendance credit per recital to a maximum of three per semester).

All music majors, except transfer students and second degree candidates, must attend weekly Convocation meetings for a minimum of six semesters. A student receives five recital attendance credits for each satisfactorily completed semester of Convocation (at least 75% or more of the weekly meetings attended and recorded). Recital attendance records are kept by the Music Department.

Transfer students and second degree candidates must earn 10 recital credits (including weekly Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

**Music Performance Course Enrollment Requirements.** The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

1. Performance courses (lessons) cannot be dropped after the second week of each semester;

2. No undergraduate music major may register for performance courses (lessons) unless the student is simultaneously registered for a minimum of four credits in Music Department courses other than performance;
3. Instrumental and vocal majors enrolled in the Performance and Music Education degree programs must be registered in an approved major performing ensemble concurrent with each semester of performance study in their principal performance area; and

4. Enrollment in lab Master Class (0 cr.) is required of all voice students each semester of enrollment in lessons. Keyboardists and instrumentalists should consult their keyboard or instrumental instructors about the lab Master Class requirements.

**Music Theory and History Requirements.** All music majors are required to take a core of music theory and music history courses. The music theory core entails a three-semester sequence of Materials of Theory, accompanied by three semesters of Aural Theory and three of Keyboard Harmony. This is followed by a semester of Form Analysis. All music degree programs require additional theory courses, but these requirements vary from program to program.

The Music History core comprises the three-semester sequence of the General History of Western Music. Additional music history courses are required by most programs.

**Laptop Requirement.** Music students in all areas will be encouraged to have a laptop computer during their course of study in the department. Students in the BFA Music Composition and Technology program will be required to have a laptop computer once they are admitted. Please see requirements posted on the PSOA Laptop Requirement web page: [www4.uwm.edu/psoa/laptop](http://www4.uwm.edu/psoa/laptop).

**Music Performance Major**

A prospective student must demonstrate advanced technical and artistic skills at the admission audition for a performance degree.

**Music Course Requirements:** 65-80 credits with variable electives. See individual area requirements.

**Principal Instrument or Voice. 16 cr.** Includes four semesters of Music Performance at 300 level (2 cr./sem totaling 8 cr.) and four semesters at 400 level (2 cr./sem totaling 8 cr.). In addition, multiple woodwind majors are required to complete six semesters of Music Performance on a secondary instrument at the 100 level (1 cr./sem) and four semesters of Music Performance on a tertiary instrument at the 100 level (1 cr./sem). The Piano Pedagogy program includes 8 credits at the 200 level.

**Lab Master Class.** Up to eight semesters at 0 cr. per semester may be required or recommended as part of your individual lesson obligation. See individual area requirements.

**Piano Requirement.** 2-8 cr. Depending on audition results, a student may be required to enroll in Mus Perf 001, Piano Fundamentals, for up to two semesters or until the student receives a final grade of B or better. See individual area requirements.

**Major Ensemble.** 6-8 cr. (1 cr per sem.) Students taking individual lessons must concurrently be enrolled in an approved Performance Ensemble. See Performance Organization requirements.

**Chamber Ensemble.** 3-8 cr. Applies to Instrumental Curriculum only.

**Music Theory and History.** 32 cr. See individual area requirements or electives.

**Conducting.** 2-4 cr. See individual area requirements or electives.

**Junior Recital.** 0 cr. Supervised preparation towards full or one-half junior recital. See individual area requirements.

**Senior Recital.** 2 cr. Supervised preparation towards required full senior recital.
Convocation. 6 semesters. See Recital and Convocation Attendance.

Electives. 0-12 cr. See individual area requirements or electives.

Special Core Curriculum Requirements. Foreign language: 6-14 cr. See individual area requirements.

Music Performance Curriculum. Recommended curricular order.

WINDS, BRASS, AND PERCUSSION

Freshman Year â€“ Semester I

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**Junior Year â€“ Semester I**

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**Senior Year â€“ Semester I**

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**Senior Year â€“ Semester II**

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MUSIC 660 Senior Recital 2
Choose one theory elective: 3
MUSIC 323 Instrumentation
OR
MUSIC 421 Materials of Contemporary Music
Music or General Electives 5
Core Curriculum and Electives 3
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PRINCIPAL INSTRUMENT: STRINGS

Freshman Year â€“ Semester I

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Freshman Year â€“ Semester II

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Sophomore Year â€“ Semester I

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<td>MUSIC 269 or 270</td>
<td>Chamber Ensemble</td>
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<td>MUSIC 307</td>
<td>General History of Western Music III</td>
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**Junior Year â€“ Semester II**

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<td>MUSIC 308</td>
<td>Music History and Literature (suggested)</td>
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<td>MUSIC 310</td>
<td>Introduction to World Musics (suggested)</td>
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<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
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<td>MUSIC 312</td>
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<td>MUSIC 313</td>
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<td>MUSIC 314</td>
<td>Music of the 20th Century</td>
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<tr>
<td>MUSIC 611</td>
<td>Survey of Medieval Music</td>
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<td>Survey of Renaissance Music</td>
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<td>MUSIC 353</td>
<td>Conducting (2 cr.)</td>
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<td>String Pedagogy (2 cr.)</td>
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**Senior Year â€“ Semester I**

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<td>Analog and Digital Synthesis I</td>
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<td>Digital Synthesis and Systems II</td>
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Music or General Electives 4
Core Curriculum 4
Total 15

**Senior Year â€“ Semester II**

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**PRINCIPAL INSTRUMENT: PIANO AND ORGAN**

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<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<td>MUSIC 125</td>
<td>Keyboard Harmony I</td>
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<td>MUSIC 127</td>
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<td>Aural Theory II</td>
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<td>MUSIC 128</td>
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**Sophomore Year â€“ Semester I**

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<td>MUSIC 225</td>
<td>Materials of Theory III</td>
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**Sophomore Year â€“ Semester II**

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**Junior Year â€“ Semester I**

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**Junior Year â€“ Semester II**

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<td>Foreign Language³ (3 cr./sem)</td>
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**Senior Year â€“ Semester I**

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<td>MUSIC 308</td>
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<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
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<td>Music of the Classic Era</td>
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<td>MUSIC 314</td>
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**PRINCIPAL INSTRUMENT: COLLABORATIVE PIANO- VOCAL**

### Freshman Year: Semester I

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<td>MUSPERF 101</td>
<td>Piano (technique)</td>
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<tr>
<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<td>MUSIC 125</td>
<td>Keyboard Harmony I</td>
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<td>MUSIC 127</td>
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### Freshman Year: Semester II

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<td>MUSIC 124</td>
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<td>MUSIC 126</td>
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<td>MUSIC 128</td>
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### Sophomore Year: Semester I

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<td>Piano (technique)</td>
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**Sophomore Year – Semester II**

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<td>German Diction in Singing</td>
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**Junior Year – Semester I**

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**PRINCIPAL INSTRUMENT: PIANO PEDAGOGY 7**

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<td>MUSIC 125</td>
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**Freshman Year – Semester II**

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MUSIC 044, 052, or 056
MUSIC 245 Italian Diction (odd years) 1
MUSIC 124 Aural Theory II 1
MUSIC 126 Keyboard Harmony II 1
MUSIC 128 Materials of Theory II 2
MUSIC 107 Convocation 0
Core Curriculum 9
Total 18

**Sophomore Year**

**Semester I**

MUSPERF 311 Voice (plus Voice Lab Master Class) 2
MUSPERF 001 or Piano 1
MUSIC 044, 052, or 056
MUSIC 244 Basic Diction (even years) 1
OR
MUSIC 246 German Diction (odd years) 1
MUSIC 225 Materials of Theory III 2
MUSIC 226 Aural Theory III 1
MUSIC 227 Keyboard Harmony III 1
MUSIC 211 General History of Western Music I 3
MUSIC 107 Convocation 0
Foreign Language 3 (4 cr/sem) 4
Total 16

**Sophomore Year**

**Semester II**

MUSPERF 311 Voice (plus Voice Lab Master Class) 2
MUSPERF 001 or Piano 1
MUSIC 044, 052, or 056
MUSIC 245 Italian Diction (odd years) 1
OR
MUSIC 247 French Diction (even years) 1
MUSIC 230 Form Analysis 3
MUSIC 212 General History of Western Music II 3
MUSIC 107 Convocation 0
Core Curriculum 3
Foreign Language 3 (4 cr/sem) 4
Total 18

**Junior Year**

**Semester I**

MUSPERF 411 Voice (plus Voice Lab Master Class) 2
MUSIC 044, 052, or 056
MUSIC 246 German diction (odd years) 1
MUSIC 277 Song Literature (even years) 2
MUSIC 353 Conducting 2
MUSIC 307 General History of Western Music III 3
MUSIC 107\textsuperscript{2} Convocation 0
Core Curriculum 3
Foreign Language\textsuperscript{3} (3 cr./sem) 3
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**Junior Year â€“ Semester II**

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**Senior Year â€“ Semester I**

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**Senior Year â€“ Semester II**

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**PRINCIPAL INSTRUMENT: GUITAR**

**Freshman Year â€“ Semester I**

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**Freshman Year â€“ Semester II**

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**Sophomore Year â€“ Semester I**

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<td>Guitar Repertoire and Ensemble</td>
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<td>MUSIC 225</td>
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**Sophomore Year â€“ Semester II**

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<td>MUSIC 212</td>
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<td>MUSIC 107</td>
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Foreign Language 3 (4 cr./sem) 4

Total 17

**Junior Year â€“ Semester I**

MUSPERF 4xx (446, Guitar
447, 448, or 449)  (two styles must be taken for each sem of freshman and sophomore years)
MUSPERF 1xx (146, 2nd Style Guitar
147, 148, 149)
MUSIC 274 or 271 Guitar Repertoire and Ensemble
MUSIC 307 General History of Western Music III
MUS ED 385 Guitar Pedagogy
MUSIC 107 Guitar Repertoire and Ensemble 1
Choose one history elective: 3
MUSIC 308 Selected Topics in History and Literature
MUSIC 311 Music of the Baroque Era
MUSIC 312 Music of the Classic Era
MUSIC 313 Music of the Romantic Era
MUSIC 314 Music of the 20th Century
MUSIC 309 American Folk and Pop Music (2 cr.)
MUSIC 611 Survey of Medieval Music
MUSIC 612 Survey of Renaissance Music
MUSIC 107 Convocation 0
Core Curriculum 5
Foreign Language 3 (3 cr./sem) 3
Total 16

**Junior Year â€“ Semester II**

MUSPERF 4xx (446, Guitar
447, 448, or 449)
MUSPERF 1xx (146, 2nd Style Guitar
147, 148, 149)
MUSIC 274 or 271 Guitar Repertoire and Ensemble
MUSIC 421 Materials of Contemporary Music
MUSIC 659 Junior Recital 0
MUSIC 385 Guitar Pedagogy 1
Choose one history elective:
MUSIC 308 Selected Topics in History and Literature
MUSIC 311 Music of the Baroque Era
MUSIC 312 Music of the Classic Era
MUSIC 313 Music of the Romantic Era
MUSIC 314 Music of the 20th Century
MUSIC 309 American Folk and Pop Music (2 cr.)
MUSIC 611 Survey of Medieval Music
MUSIC 612 Survey of Renaissance Music
MUSIC 107 Convocation 0
Core Curriculum 3
Foreign Language 3 (3 cr./sem) 3
Total 17

**Senior Year â€“ Semester I**

MUSPERF 4xx (446, Guitar
447, 448, or 449)
MUSIC xxx Guitar Repertoire and Ensemble
MUSIC 353 Conducting 1-2
Choose one theory elective:
MUSIC 321 Counterpoint
MUSIC 323 Instrumentation
MUSIC 220 Introduction to Computers and Music
MUSIC 327 Analog and Digital Synthesis I
MUSIC 328 Digital Synthesis and Systems II
MUSIC 680 Special Studies in Music Theory
Core Curriculum and Electives 7
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**PRINCIPAL INSTRUMENT: MULTIPLE WOODWINDS**

**Freshman Year – Semester I**

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**Sophomore Year – Semester I**

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Core Curriculum and Electives | 6

Total | 16

**Junior Year â€“ Semester I**

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<td>MUSIC 321</td>
<td>Counterpoint</td>
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<td>MUSIC 353</td>
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Core Curriculum and Electives | 4

Total | 18

**Junior Year â€“ Semester II**

<table>
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</tr>
<tr>
<td>MUSPERF 1xx</td>
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<td>MUSIC 030, 040, 042, 182</td>
<td>Band or Orchestra (1 cr./sem)</td>
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<tr>
<td>MUSIC 265 or 271</td>
<td>Chamber or Jazz Ensemble</td>
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<tr>
<td>MUSIC 659</td>
<td>Junior Recital</td>
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<tr>
<td>MUSIC 354</td>
<td>Instrumental Conducting</td>
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One of the following history electives: | 3

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<tbody>
<tr>
<td>MUSIC 308</td>
<td>Music History and Literature</td>
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<tr>
<td>MUSIC 310</td>
<td>Introduction to World Musics</td>
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<tr>
<td>MUSIC 311</td>
<td>Music of the Baroque Era</td>
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<td>MUSIC 312</td>
<td>Music of the Classic Era</td>
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<tr>
<td>MUSIC 313</td>
<td>Music of the Romantic Era</td>
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<tr>
<td>MUSIC 314</td>
<td>Music of the 20th Century</td>
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</tr>
<tr>
<td>MUSIC 611</td>
<td>Survey of Medieval Music</td>
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</tr>
<tr>
<td>Music 612</td>
<td>Survey of Renaissance Music</td>
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<tr>
<td>MUSIC 107</td>
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Core Curriculum and Electives | 6

Total | 17

**Senior Year â€“ Semester I**

<table>
<thead>
<tr>
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<tr>
<td>MUSPERF 1xx</td>
<td>Secondary Instrument</td>
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</tr>
<tr>
<td>MUSPERF 1xx</td>
<td>Tertiary Instrument</td>
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</tr>
<tr>
<td>MUSIC 030, 040,</td>
<td>Band or Orchestra</td>
<td>1</td>
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</table>
042, 182
MUSIC 265 or 271 Chamber or Jazz Ensemble 1
MUSIC 660 Senior Recital (Secondary Instrument) 1
Music Electives 2
Core Curriculum and Electives 6
Total 15

Senior Year â€“ Semester II Cr.

MUSPERF 4xx Principal Instrument 2
MUSPERF 1xx Secondary Instrument 1
MUSPERF 1xx Tertiary Instrument 1
MUSIC 030, 040, 042, 182 Band or Orchestra 1
MUSIC 660 Senior Recital (Principal Instrument) 2
Choose one theory elective: 3
MUSIC 323 Instrumentation 3
OR
MUSIC 421 Materials of Contemporary Music 4
Core Curriculum and Electives 4
Total 14

1 Winds, Brass, Percussion, Strings, and Guitar: Depending upon audition results, students may enroll in MusPerf 001 (Piano Fundamentals) for up to 2 semesters or until they can pass a satisfactory piano audition through the piano faculty. Credit toward degree will not be counted. Students must take 2 semesters of Mus Perf Piano at 101 level.

2 Convocation credit does not count towards overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 cr.

3 Foreign Language: The four-semester foreign language requirement may be fulfilled by the study of one, two, or three different languages (6 cr. must be at 200 level or above).

4 Organ: Check with department for availability.

5 Piano: See Performance Organization Requirement Chart.

6 Voice: Depending upon audition results, students may be required to enroll in Mus Perf 001 (Piano Fundamentals) for up to 2 sem or until they can pass a satisfactory piano audition through the Piano faculty. Credit toward degree will not be counted. Students must take 4 semesters of Mus Perf Piano at 101 level.

7 Collaborative Piano-Vocal and Piano Pedagogy: Once accepted into this program, students become pre-majors until they successfully complete the first two years of required courses for the Collaborative Piano-Vocal track or the Piano Pedagogy track, and maintain a 3.00 GPA in those courses. At that point, their academic and artistic growth is reviewed for official entry into the track by the program faculty. The jury at the end of the fourth semester of study will determine whether the student meets the artistic standard necessary to officially enter either the Collaborative Piano-Vocal Program or Piano Pedagogy Program. The Piano Faculty will listen to the jury and determine a letter grade based on the performance. The student must receive an average grade of B to continue in the program.

8 Lab Master Class: 8 semesters at 0 credit is required as part of your individual lesson obligation.

JAZZ STUDIES

Admittance to the Jazz Studies Program. Students wishing to pursue a Jazz Studies major should declare their
intention at the time of application to the Music Department, indicating Jazz Studies. Students must pass an entrance audition, which will include both traditional and jazz material, in order to be admitted to the program. For the jazz portion of the audition, students will be asked to perform the following: (1) an improvisation based on the twelve-measure blues progression, (2) an improvisation based on a standard song form, (3) an improvisation on material of the student’s choosing, and (4) a notated melodic line to be played with jazz rhythmic inflections (this will be provided by the Jazz Studies faculty).

**Required Theory/Composition Background.** Jazz Studies majors are required to take all required core Music Theory courses. Students must begin with Music 123, 125, and 127 (Theory Level I), or they may be required to take the preparatory Music 1, Theory Fundamentals, as determined by the Theory Placement Exam. A grade of B- or better is required in Music 1 before a student may advance to Theory Level I courses. While enrolled in Theory Level II courses, students accepted into the program will take a written theory placement exam. This exam will determine if the student is required to take the preparatory Jazz Fundamentals, Music 206, course.

**Required Piano Proficiency.** Upon entry into the program, all Jazz Studies students must audition on piano. Piano Proficiency will be assessed at either the 100 or 200 level. Those placed at the 100 level must take a minimum of two semesters of piano at the MusPerf 100 level, or the equivalent, to meet the Piano Proficiency requirement. Depending on audition results, a student may be required to enroll in MusPerf 1, Fundamentals of Piano, for up to two semesters or until he/she receives a final grade of B or better, before advancing to piano at the MusPerf 100 level. Deficiencies are made up without credit.

**Performance Organization Requirement.** A minimum of four semesters of any approved music ensemble is required. In addition, all Jazz Studies majors are required to take four semesters of Jazz Ensemble.

**Studio Instruction Requirements.** All Jazz Studies majors are required to take four semesters of traditional studio instruction and four semesters of jazz studio instruction on their principal instrument. The traditional studio instruction will be at the 300 level; jazz studio instruction will be two semesters at the 300 level and two semesters at the 400 level.

**Graduation Requirement - Senior Recital.** Completion of a BFA in Jazz Studies requires the student to register for Senior Recital in the semester he/she intends to graduate. Registering for Senior Recital stipulates a public recital lasting a minimum of one hour in duration. The program for this recital must include at least two original jazz compositions by the student.

**Required Music Courses.** The following music courses are required.

- *Studio Instrument Lessons*, 16 cr. See Studio Instruction Requirements above.
- *Piano*, 2 cr. See Required Piano Proficiency above.
- *Music Theory*, 20 cr.
- *Music History*, 12 cr.
- *Jazz Studies*, 20 cr.
- *Senior Recital*, 2 cr. See Graduation Requirement - Senior Recital above.
- *General Music Electives*, 5 cr.
- *Convocation*, 6 semesters. See Recital and Convocation Attendance.
- *University Requirements*, 30 cr.
- *Peck School of the Arts Courses*, 12 cr.
University Electives, 3 cr.

Foreign Language Requirement. Six credits at the 200 level are required.

JAZZ STUDIES CURRICULUM

Recommended course order:

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<thead>
<tr>
<th>Freshman Year â€“ Semester I</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>MUSPERF 3xx Studio Instrument (Tradition)</td>
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</tr>
<tr>
<td>MUSPERF 001 or Piano</td>
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<tr>
<td>101¹</td>
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<tr>
<td>MUSIC xxx² Performing Organization</td>
<td>1</td>
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<tr>
<td>MUSIC 123 Aural Theory I</td>
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<tr>
<td>MUSIC 125 Keyboard Harmony I</td>
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<tr>
<td>MUSIC 127 Materials of Theory I</td>
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<td>MUSIC 107³ Convocation</td>
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<tr>
<td>MUSIC xxx² Performing Organization</td>
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<td>MUSIC 124 Aural Theory II</td>
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<td>MUSIC 126 Keyboard Harmony II</td>
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<td>MUSIC 128 Materials of Theory II</td>
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<tr>
<td>MUSIC 225 Materials of Theory III</td>
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<td>MUSIC 226 Aural Theory III</td>
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<td>MUSIC 227 Keyboard Harmony III</td>
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<tr>
<td>MUSIC 211 General History of Western Music I</td>
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<td>MUSIC 107³ Convocation</td>
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<td>MUSIC xxx Performance Organization</td>
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<td>MUSIC 230 Form Analysis</td>
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<td>MUSIC 271</td>
<td>Jazz Ensemble</td>
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<tr>
<td>MUSIC 302</td>
<td>Jazz Theory I</td>
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<tr>
<td>MUSIC 330</td>
<td>Improvisation I</td>
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<td>MUSIC 323</td>
<td>Instrumentation</td>
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<td>MUSIC 421</td>
<td>Materials of Contemporary Music</td>
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<td>MUSIC 307</td>
<td>General History of Western Music III</td>
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### Junior Year – Semester II

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<tr>
<td>MUSIC 271</td>
<td>Jazz Ensemble</td>
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<tr>
<td>MUSIC 306</td>
<td>Jazz Theory II</td>
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<td>MUSIC 303</td>
<td>Jazz History</td>
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<td>MUSIC 331</td>
<td>Improvisation II</td>
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<td>MUSIC 402</td>
<td>Jazz Combo</td>
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<td>MUSIC 107</td>
<td>Convocation</td>
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### Senior Year – Semester I

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<td>MUSIC 271</td>
<td>Jazz Ensemble</td>
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<td>MUSIC 304</td>
<td>Jazz Arranging</td>
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<td>MUSIC 404</td>
<td>Improvisation III</td>
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<td>MUSIC 402</td>
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### Senior Year – Semester II

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<td>MUSIC 660</td>
<td>Senior Recital (Principal Instrument)</td>
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<td>MUSIC 402</td>
<td>Jazz Combo</td>
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<tr>
<td>MUSIC 405</td>
<td>Improvisation IV</td>
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<td>MUSIC 310</td>
<td>World Music</td>
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<tr>
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1 Piano Requirements: Depending upon audition results, students may be required to enroll in MusPerf 001, Piano Fundamentals, for up to two semesters or until they can pass a satisfactory piano audition through the Piano faculty. Credit toward the degree will not be counted. Students must take two semesters of MusPerf Piano at the 101 level.

2 Performing Organization. Four semesters minimum are required from an approved ensemble: University Band, Wind Ensemble, Choir, or Orchestra. In addition, all Jazz Studies majors are required to take four semesters of Jazz Ensemble.

3 Convocation: Credit does not count towards the overall degree total. A 1 credit fee will be assessed by the University if student’s course load is less than 12 or greater than 18 credits.
MUSIC EDUCATION (BACHELOR OF FINE ARTS WITH TEACHER CERTIFICATION)

A student wishing to enroll in a Music Education course of study must demonstrate high musical skills at the admission auditions. In addition, he or she must possess a strong desire to help students discover the joys and challenges of music. Five submajors are possible: instrumental, instrumental/general music, choral, choral/general music, and general music. Instrumentalists may major in the instrumental, instrumental/general music, or general music programs. Vocalists, pianists, and guitarists should follow the choral, choral/general music, or general music programs. During the first semester of enrollment, the student must schedule an interview with the Music Education advisor.

Human Relations Requirement. See School of Education, Curriculum for Teacher Education Programs.

Certification. The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

A student wishing certification must successfully audition and apply for admission to the Peck School of the Arts Teacher Certification Program by the beginning of the junior year. Following admission to the Music Education Program (see admission requirements), and successful completion of the specified Music Education course of studies, a student seeking recommendation for teacher certification must successfully fulfill the following requirements:

1. Fulfill all degree requirements;
2. Successfully complete student teaching;
3. Compile at least a 2.75 cumulative GPA;
4. Fulfill the Field Experience Requirement;
5. Pass the Pre-Professional Skills Test (PPST);
6. Pass the Praxis II Music Content Exam;
7. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements); and
8. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities.

Special Core Curriculum Requirements. The following requirements can be met with courses which apply to the Core Curriculum.

English Proficiency. See The Arts Core Curriculum for details.

Communication Competency. Students must satisfactorily complete Communication 101 or 103. The communication abilities of a student remain under constant review as a selective factor for retention in teacher certification programs.

Developmental Reading. Either Curr Ins 343 or 545 will fulfill the developmental reading requirement.

Exceptional Education. State law requires 3 credits or the equivalent in study designed to inform the student of the special needs of physically and mentally handicapped children. This requirement can be met by the completion of Exc Educ 531, 3 credits; Exc Educ 605, 3 credits; or Exc Educ 300, 3 credits; combined with the required Mus Ed courses 350, 450, 477, 478, and 479; and one of the following: 460, 461, 462, 463.

Educational Psychology. Ed Psy 330 fulfills this requirement.

Music Education Core Courses Required of All Music Education Majors with the exception of Instrumental only
and Choral only certification majors (see note below); 17 cr.: Student Teaching (Mus Ed 477 and 478), Seminar in Student Teaching (Mus Ed 479), Intro to Music Education (Mus Ed 350), Field Experience (Mus Ed 450), Teaching Elementary General Music (Mus Ed 460), and Teaching Secondary General Music (Mus Ed 461) are required.

**Recital Requirement:** Music Education students are required to perform a one-half hour recital as part of their private lesson requirement.

**INSTRUMENTAL MUSIC or CHORAL MUSIC CERTIFICATION ONLY** (limited employment possibilities, not recommended). 5 cr. Music Electives required to replace Mus Ed 460 and Mus Ed 461.

**Teaching Portfolio**

The Music Education Area and the Wisconsin Department of Public Instruction require that students compile a developmental teaching portfolio that demonstrates proficiency in their area of expertise. The portfolio will be compiled as a part of their major music methods and field experience requirements. Evidence of teaching proficiency must include:

1. Record of PPST passing scores;
2. Transcript demonstrating 2.75 GPA;
3. Copy of current resume;
4. Lesson plans written and taught in music methods courses and student teaching;
5. Statement of teaching and learning philosophy;
6. Examples of audio and video recordings from student performances as a conductor or performer;
7. Written evaluations from cooperating teachers, university supervising teachers, and methods class instructors; and
8. Artifacts and self-evaluations based upon microteaching and student teaching experiences.

**MUSIC EDUCATION - INSTRUMENTAL MUSIC (WIND AND PERCUSSION) EC-A PROGRAM REQUIREMENTS**

**Music Performance Courses, 7 cr.** Seven semesters on principal instrument at 200 (or higher) level. Master classes are available as electives but may not substitute for performance credit.

**Orchestra or Band, 7 cr.** One credit per semester maximum. For more information, see Performance Organization requirement.

**Fundamentals of Instruments, 11 cr.** Student takes every instrument listed except his or her principal performance instrument.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Instrument</th>
<th>Credit</th>
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<tbody>
<tr>
<td>MUSPERF 001</td>
<td>Piano (2 sem.)</td>
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<tr>
<td>MUSIC 140</td>
<td>Voice</td>
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<tr>
<td>MUSPERF 021</td>
<td>Flute</td>
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<tr>
<td>MUSPERF 022</td>
<td>Oboe</td>
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<td>OR</td>
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<tr>
<td>MUSPERF 025</td>
<td>Bassoon</td>
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<td>MUSPERF 023</td>
<td>Clarinet</td>
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<td>Saxophone</td>
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<tr>
<td>MUSPERF 031</td>
<td>Horn</td>
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</tr>
<tr>
<td>MUSPERF 032</td>
<td>Trumpet</td>
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</tr>
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</table>
Instrumental Music Education, 5 cr. Mus Ed 451, 452, and 463 required. Admission into Teacher Certification Program, Peck School of the Arts, required.


Music History, 14 cr. Core plus Music 309, American Folk and Popular Music; and Music 310, Introduction to World Musics.

Conducting, 4 cr. Music 353 and 354.

Convocation, 6 semesters. See Recital and Convocation attendance.

MUSIC EDUCATION - INSTRUMENTAL (WIND AND PERCUSSION) EC-A CURRICULUM

Recommended curricular order.

**Freshman Year â€“ Semester I**

<table>
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<tr>
<th>Course Code</th>
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<td>MUSPERF 001</td>
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<td>Band</td>
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<td>MUSIC 123</td>
<td>Aural Theory I</td>
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**Sophomore Year â€“ Semester I**

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**Junior Year – Semester I**

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**Senior Year – Semester I**

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MUSIC 323 Instrumentation 3
MUSPERF 025 Bassoon Fundamentals 1
CURRINS 343 or 545 Education Core 3
Music Elective 2
Total 15

Senior Year â€“ Semester II

MUS ED 477 Student Teaching in Music â€“ Elementary Level 4
MUS ED 478 Student Teaching in Music â€“ Secondary Level 5
MUS ED 479 Seminar in Student Teaching 1
Core Curriculum 3
Total 13

1 Convocation credit does not count towards overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 cr.

2 Students do not take fundamentals courses for their own principal instruments.

MUSIC EDUCATION - INSTRUMENTAL MUSIC (STRINGS) EC-A PROGRAM REQUIREMENTS

Music Performance Courses, 7 cr. Seven semesters on principal instrument at 200 (or higher) level. Master classes are available as electives, but may not substitute for performance credit.

Orchestra, 7 cr. One credit per semester maximum. For more information, see Music, Performance Organization Requirement.

Fundamentals of Instruments, 11 cr. Student takes every instrument listed except his or her principal performance instrument.

MUSPERF 001 Piano (2 sem.) 2
MUSIC 140 Voice 1
MUSPERF 021 Flute 1
MUSPERF 023 Clarinet 1
MUSPERF 032 Trumpet 1
MUSPERF 033 Trombone 1
MUSPERF 041 Violin 1
MUSPERF 042 Viola 1
MUSPERF 043 Cello 1
MUSPERF 044 Bass 1
MUSPERF 051 Percussion 1
MUSPERF 0xx Music Elective 1

Instrumental Music Education, 5 cr. Mus Ed 451, 452, and 463 required. Admission into Teacher Certification Program, Peck School of the Arts, required.


Music History, 14 cr. Core plus Music 309, American Folk and Popular Music; and Music 310, Introduction to World Musics.

Conducting, 4 cr. Music 353 and 354.
**Convocation, 6 sem.** See Recital and Convocation attendance.

**MUSIC EDUCATION - INSTRUMENTAL MUSIC (STRINGS) EC-A CURRICULUM**

Recommended curricular order.

### Freshman Year 1st Semester

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Core Curriculum: 9 
Total: 15

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Core Curriculum: 9 
Total: 17

### Sophomore Year 1st Semester

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Mus Perf 0xx Fundamentals Elective: 1 
General Elective: 3 
Total: 17

### Sophomore Year 2nd Semester

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**Junior Year â€“ Semester II**

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**Senior Year â€“ Semester I**

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**Senior Year â€“ Semester II**

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1 Convocation credit does not count towards overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 cr.
2 Students do not take fundamentals courses for their own principal instruments.

MUSIC EDUCATION - INSTRUMENTAL MUSIC (WIND AND PERCUSSION) EC-A WITH GENERAL MUSIC EC-A PROGRAM REQUIREMENTS

Music Performance Courses, 7 cr. Seven semesters on principal instrument at 2xx (or higher) level. Master classes are available as electives, but may not substitute for performance credit.

Orchestra or Band, 7 cr. One credit per semester maximum. For more information, see Performance Organization requirement.

Fundamentals of Instruments, 11 cr. Student takes every instrument listed except his or her principal performance instrument.

- MUSPERF 001 Piano (2 sem.) 2
- MUSIC 140 Voice 1
- MUSPERF 021 Flute 1
- MUSPERF 022 Oboe 1
- OR
- MUSPERF 025 Bassoon 1
- MUSPERF 023 Clarinet 1
- MUSPERF 024 Saxophone 1
- MUSPERF 031 Horn 1
- MUSPERF 032 Trumpet 1
- MUSPERF 033 Trombone 1
- MUSPERF 041 Violin 1
- MUSPERF 051 Percussion 1

Instrumental Music Education, 5 cr. Mus Ed 451, 452, and 463 required. Admission into Teacher Certification Program, Peck School of the Arts, required.


Music History, 12 cr. Core plus Music 310, Introduction to World Musics.

Conducting, 4 cr. Music 353 and 354.

Convocation, 6 semesters. See Recital and Convocation attendance.

MUSIC EDUCATION - INSTRUMENTAL MUSIC EC-A (WIND AND PERCUSSION) WITH GENERAL MUSIC EC-A CERTIFICATION CURRICULUM

Recommended curricular order.

Freshman Year â€“ Semester 1

- MUSPERF 2xx Principal Instrument 1
- MUSPERF 001 Piano Fundamentals 1
- MUSIC 040 Band 1
- MUSIC 123 Aural Theory I 1
- MUSIC 125 Keyboard Harmony I 1
- MUSIC 127 Materials of Theory I 1
- MUSPERF 041 Violin Fundamentals 1
- MUSPERF 051 Percussion Fundamentals 1
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**Freshman Year - Semester II**

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**Sophomore Year - Semester I**

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**Sophomore Year - Semester II**

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**Junior Year - Semester I**

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<td>Introduction to World Musics</td>
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<td>MUSPERF 024</td>
<td>Saxophone Fundamentals</td>
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<td>MUSPERF 025</td>
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<td>MUSIC 040</td>
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### Senior Year - Semester I

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<td>MUS ED 463</td>
<td>Teaching Instrumental Music: Secondary</td>
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<td>MUSIC 182</td>
<td>Orchestra</td>
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<td>MUSIC 323</td>
<td>Instrumentation</td>
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<td>MUSIC 461</td>
<td>Teaching Secondary General Music</td>
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<td>CURRINS 343</td>
<td>or 545Education Core</td>
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### Senior Year - Semester II

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<td>Seminar in Student Teaching</td>
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1 Convocation credit does not count towards overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 cr.

2 Students do not take fundamentals courses for their own principal instruments.

### MUSIC EDUCATION - INSTRUMENTAL MUSIC EC-A (STRINGS) WITH GENERAL MUSIC EC-A PROGRAM REQUIREMENTS

**Music Performance Courses, 7 cr.** Seven semesters on principal instrument at 200 (or higher) level. Master classes are available as electives, but may not substitute for performance credit.

**Orchestra, 7 cr.** One credit per semester maximum. For more information, see Music, Performance Organization Requirement.

**Fundamentals of Instruments, 11 cr.** Student takes every instrument listed except his or her principal performance instrument.

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<tr>
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<th>Course Title</th>
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<tbody>
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<td>MUSPERF 001</td>
<td>Piano (2 sem.)</td>
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</table>
MUSIC 140 Voice 1
MUSPERF 021 Flute 1
MUSPERF 023 Clarinet 1
MUSPERF 032 Trumpet 1
MUSPERF 041 Violin 1
MUSPERF 042 Viola 1
MUSPERF 043 Cello 1
MUSPERF 044 Bass 1
MUSPERF 051 Percussion 1
MUSPERF 0xx Music Elective 1

Instrumental Music Education, 5 cr. Mus Ed 451, 452, and 463 required. Admission into Teacher Certification Program, Peck School of the Arts, required.


Music History, 12 cr. Core plus Music 310, Introduction to World Musics.

Conducting, 4 cr. Music 353 and 354.

Convocation, 6 semesters. See Recital and Convocation attendance.

MUSIC EDUCATION - INSTRUMENTAL MUSIC EC-A (STRINGS) WITH GENERAL MUSIC EC-A CERTIFICATION CURRICULUM

Recommended curricular order.

Freshman Year à€“ Semester I  Cr.

MUSPERF 2xx Principal Instrument 1
MUSPERF 001 Piano Fundamentals 1
MUSIC 182 Orchestra 1
MUSIC 123 Aural Theory I 1
MUSIC 125 Keyboard Harmony I 1
MUSIC 127 Materials of Theory I 1
MUSIC 107 Convocation 0
Core Curriculum 9
Total 15

Freshman Year à€“ Semester II  Cr.

MUSPERF 2xx Principal Instrument 1
MUSIC 140 Voice Class 1
MUSPERF 001 Piano Fundamentals 1
MUSIC 182 Orchestra 1
MUSIC 124 Aural Theory II 1
MUSIC 126 Keyboard Harmony II 1
MUSIC 128 Materials of Theory II 2
MUSIC 107 Convocation 0
Core Curriculum 9
Total 17

Sophomore Year à€“ Semester I  Cr.

MUSPERF 2xx Principal Instrument 1
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<td>MUSIC 211</td>
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<td>MUSIC 225</td>
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**Sophomore Year**

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<td>Form Analysis</td>
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<td>American Folk and Popular Music</td>
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**Junior Year**

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**Junior Year**

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**Senior Year**

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MUSPERF 2xx Principal Instrument 1
MUSIC 182 Orchestra 1
MUSPERF 042 Viola Fundamentals 1
MUS ED 463 Teaching Instrumental Music: Secondary 2
MUS ED 460 Teaching Elementary General Music Pre-K â€“ 6 3
MUSIC 323 Instrumentation 3
MUS ED 461 Teaching Secondary General Music 2
CURRINS 343 or 545 Education Core 3
Total 16

Senior Year â€“ Semester II Cr.
MUS ED 477 Student Teaching in Music â€“ Elementary Level 4
MUS ED 478 Student Teaching in Music â€“ Secondary Level 5
MUS ED 479 Seminar in Student Teaching 1
Core Curriculum 3
Total 13

1 Convocation credit does not count towards overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 cr.

2 Students do not take fundamentals courses for their own principal instruments.

MUSIC EDUCATION - CHORAL MUSIC EC-A PROGRAM REQUIREMENTS

Music Performance Courses, 13 cr. Singers, 7 cr. of Voice (7 sem of Mus Perf 211 or higher) and 6 cr. of Piano (6 semesters of piano to include: Mus Perf 001 and 101, and Mus Ed 331 and 332).

Pianists, 7 cr. of Piano (7 semesters of Mus Perf 201 or higher) and 6 cr. of Voice (6 sem of Mus Perf 111 or higher).

Lab Master Class required of all enrolled in voice courses. Master Class in piano may not substitute for the above piano courses.

Concert Chorale, University Choir, or Women's Chorus, 7 cr. One cr maximum per semester is allowed toward graduation. At least four semesters should be in an SATB ensemble.


Music History and Literature, 14 cr. Core plus Music 309, American Folk and Popular Music, and 310, Introduction to World Musics.

Conducting, 4 cr. Music 353 and 357.

Pedagogy and Diction, 4 cr. Mus Ed 249 and Music 446.

Convocation, 6 sem. See Music, Recital and Convocation attendance.

Music Electives, 7 cr.

MUSIC EDUCATION - CHORAL MUSIC EC-A CURRICULUM

Recommended curricular order.
### Freshman Year “Semester I”

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Core Curriculum | 6
Total | 18

**Junior Year - Semester I**

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Total | 16

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Total | 16

**Senior Year - Semester I**

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Total | 16
MUSPERF 201 Piano 1
OR
MUSPERF 211 Voice 1
MUSPERF 660 Senior Recital (Voice Only) 0
MUSIC 044, 052, or 056 Choir 1
MUSIC 415 Choral Literature and Rehearsal Techniques 2
Theory Elective\(^2\) Education Core 3
CURRINS 343 or 545 3
MUSIC 421 Materials of Contemporary Music 3
Core Curriculum 3
Music Elective 2
Total 18

**Senior Year â€“ Semester II**

MUS ED 477 Student Teaching in Music â€“ Elementary Level 4
MUS ED 478 Student Teaching in Music â€“ Secondary Level 5
MUS ED 479 Seminar in Student Teaching 1
Core Curriculum 3
Total 13

1 Convocation credit does not count towards overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 cr.

2 Depending upon jury sight singing results, Music 326, Advanced Aural Theory, may be required as a theory elective.

**MUSIC EDUCATION - CHORAL MUSIC EC-A WITH GENERAL MUSIC EC-A CERTIFICATION PROGRAM REQUIREMENTS**

**Music Performance Courses, 13 cr.** Singers, 7 cr. of Voice (7 sem. of Mus Perf 211 or higher) and 6 cr. of Piano (6 semesters of piano to include: Mus Perf 001, 101, Mus Ed 331 and 332).

**Pianists,** 7 cr. of Piano (7 semesters of Mus Perf 201 or higher) and 6 cr. of Voice (6 sem. of Mus Perf 111 or higher).

**Lab Master Class** required of all enrolled in voice courses. Master Class in piano may not substitute for the above piano courses.

**Concert Chorale, University Choir, or Women's Chorus, 7 cr.** One cr. maximum per semester is allowed toward graduation. Four semesters should be in an SATB ensemble.

**Choral Music Education, 6 cr.** Core plus Mus Ed 462, Secondary Choral Methods; Music 415, Choral Literature and Rehearsal Techniques; Mus Ed 351, Music Instrument Lab. Admission into Teacher Certification Program, Peck School of the Arts, required.

**Music Theory, 20 cr.** Core plus Music 421, Materials of Contemporary Music.

**Music History and Literature, 14 cr.** Core plus Music 310, Introduction to World Musics, and Music 309, American Folk and Popular Music.

**Conducting, 4 cr.** Music 353 and 357.

**Pedagogy and Diction, 4 cr.** Mus Ed 249 and Music 446.
Convocation, 6 semesters. See Music, Recital and Convocation attendance.

Music Electives, 2 cr.

MUSIC EDUCATION - CHORAL MUSIC EC-A WITH GENERAL MUSIC EC-A CERTIFICATION CURRICULUM

Recommended curricular order.

**Freshman Year â€“ Semester I**

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<td>Choir</td>
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<td>American Folk and Popular Music</td>
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<td>Teaching Secondary Choral Music</td>
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**MUSIC EDUCATION - GENERAL MUSIC EC-A PROGRAM REQUIREMENTS**

**Music Performance Courses, 11-15 cr.** Singers, 7 cr. of Voice (7 semesters of Mus Perf 211 or higher, principal instrument), and 4 cr. of Piano (4 semesters of piano to include: Mus Perf 001, 101, Mus Ed 331 and 332). Pianists, 7 cr. of Piano (7 semesters of Mus Perf 201 or higher) and 4 cr. of Voice (Mus Perf 111 or higher). String, Wind, Guitar, or Percussion principals take 7 cr. of their principal performance instrument at the 200 level or higher (7 semesters) and 4 cr. of Voice (Music 140, Mus Perf 111 or higher) and 4 cr. of Piano (4 semesters of Mus Perf 101 or higher).

**Performance Organization, 7 cr.** Vocalists and pianists take 7 semesters of any choral organization. Instrumentalists take 3 semesters of any choral organization and 4 semesters of any instrumental organization.

**General Music Education, 4 cr.** Music Education Core plus Mus Ed 351 and Mus Ed 458, Musicals and Choirs for Young Voices. Admission into Teacher Certification Program, Peck School of the Arts, required.

**Guitar, 3 cr.** Either Music 150 or 151. Guitar principal need not take guitar class.

**Conducting, 2 cr.** Music 353.

**Vocal Pedagogy, 2 cr.** Music 446.

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**Senior Year â€“ Semester I**

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<td>MUSPERF 211</td>
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<td>MUS ED 351</td>
<td>Music Instrument Lab</td>
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<tr>
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<td>Teaching Elementary General Music</td>
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1 Convocation credit does not count towards overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 cr.

2 Depending upon jury sight singing results, Music 326, Advanced Aural Theory, may be required as a theory elective.

---

**Senior Year â€“ Semester II**

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<td>Student Teaching in Music â€“ Secondary Level</td>
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<td>Seminar in Student Teaching</td>
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Music History and Literature, 14 cr. Core plus Music 309, American Folk and Popular Music, and 310, Introduction to World Musics.

Convocation, 6 sem. See Music, Recital and Convocation attendance.

Music Electives, 1-5 cr.

MUSIC EDUCATION - GENERAL MUSIC EC-A CURRICULUM

Recommended curricular order.

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<tr>
<th>Freshman Year â€“ Semester 1</th>
<th>Cr.</th>
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<tr>
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<td>MUSPERF xxx Performance Organization</td>
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<td>MUSIC 123 Aural Theory I</td>
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<tr>
<td>MUSIC 125 Keyboard Harmony I</td>
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<tr>
<td>MUSIC 127 Materials of Theory I</td>
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<td>MUSIC 225 Materials of Theory III</td>
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<td>MUSIC 226 Aural Theory III</td>
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<td>MUSIC 227 Keyboard Harmony III</td>
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<td>MUSIC 107^2 Convocation</td>
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<tr>
<td>MUSPERF 1xx Non-principal Instrument</td>
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</table>
Junior Year – Semester I

MUSPERF 2xx\(^1\) Principal Instrument 1
MUSPERF 1xx Non-principal Instrument 1
MUSIC 044 or 056 Choir 1
MUSIC 353 Conducting 2
MUSIC 307 General History of Western Music III 3
MUSIC 421 Materials of Contemporary Music 3
ED PSY 330 Introduction to Learning and Development 3
MUSIC 351 Music Instrument Lab 2

Total 16

Junior Year – Semester II

MUSPERF 2xx\(^1\) Principal Instrument 1
MUSPERF 1xx Non-principal Instrument 1
MUSIC 044 or 056 Choir 1
MUSIC 107\(^2\) Convocation 0
MUSIC 446 Vocal Pedagogy 2
EXCEDUC 300, 531, or 605 Exceptional Education 3
MUS ED 450 Field Experiences in Music Education 1
MUS ED 458 Musicals and Choirs for Young Voices 2
Music Elective 1
General Elective 6

Total 18

Senior Year – Semester I

MUSPERF 2xx\(^1\) Principal Instrument 1
MUSIC 044 or 056 Choir 1
MUSIC 310 Introduction to World Musics 3
MUS ED 460 Teaching Elementary General Music 3
MUS ED 461 Teaching Secondary General Music 2
Music Elective 2
Theory Elective\(^3\) 3
CURRINS 343 or 545 Education Core 3

Total 18

Senior Year – Semester II

MUS ED 477 Student Teaching in Music Elementary Level 4
MUS ED 478 Student Teaching in Music Secondary Level 5
MUS ED 479 Seminar in Student Teaching 1
Core Curriculum 3

Total 13
All students taking voice lessons are required to enroll in Voice Lab Master Class (0 cr.).

2 Convocation credit does not count towards overall degree total. A one-credit fee will be assessed by the University if course load is less than 12 or greater than 18 cr.

3 Depending upon jury sight singing results, Music 326, Advanced Aural Theory, may be required as a theory elective.

**MUSIC HISTORY AND LITERATURE**

**Required Music Courses.** The following courses are required.

**Music Performance Courses, 8 cr.** A total of eight semesters of Performance Organization must be taken. Principal instrument studies and piano if required. Unless proficiency can be demonstrated through audition by the piano faculty, one to four semesters of piano at the 100 level are required. If non-principal piano is waived through audition, then the 8 credits must be taken in the principal instrument. Contact the area advisor or Music Department for information on proficiency exams.

**Master Class.** Up to 8 semesters at 0 cr per semester may be required or recommended as part of a student’s lesson obligation but may not substitute for the Music Performance requirement.

**Piano, 0-4 cr.** Unless proficiency can be demonstrated through audition by the piano faculty, one to four semesters of piano at the 100 level are required. If a student is not ready for piano at the 100 level, however, he or she will be required to enroll first in Mus Perf 001, Piano Fundamentals, for up to two semesters or until he or she receives a final grade of B or better.

**Performance Organization, 8 cr.** (1cr./semester). 4 cr. in approved Performance Organization and 4 cr. of Collegium Musicum. See Music, Performance Organization requirement.

**Music Theory and History, 46 cr.**

**Collegium Musicum, 4 cr.** See Music, Performance Organization requirements.

**Music Electives, 6 cr.**

**Convocation, 6 sem.** See Music, Recital and Convocation attendance.

**Special Core Curriculum Requirements.** Foreign language: 6 semesters, 20 cr.; History 101 and 102, 6 cr. History courses will also fulfill the humanities distribution of the General Education Requirement. For remaining credit distribution, see The Arts Core Curriculum.

**Electives in Related Fields, 12 crs.** Three credits must be taken in an appropriate English composition course. For other permissible choices, see area advisor or Music Department.

**MUSIC HISTORY AND LITERATURE CURRICULUM**

Recommended curricular order.

**Freshman Year â€“ Semester I**

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<thead>
<tr>
<th>Course</th>
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<th>Cr.</th>
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<td>Performance Organization</td>
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<td>MUSIC 123</td>
<td>Aural Theory I</td>
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**Freshman Year - Semester II**

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**Sophomore Year - Semester I**

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**Junior Year - Semester I**

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Foreign Language 3
Core Curriculum and Related Fields 3
Total 17

**Junior Year — Semester II**

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**Senior Year — Semester I**

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**Senior Year — Semester II**

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1 Convocation credit does not count towards overall degree total. University will assess one-credit fee if course load is less than 12 or greater than 18 credits.

2 Foreign Language: 6 semesters, 20 cr.

**MUSIC COMPOSITION AND TECHNOLOGY**

**Required Composition and Theory Background.** All potential Composition majors must show evidence of compositional ability before acceptance to the program. Indicating intent on the Music Department audition form does not automatically place the student into the program. Each applicant must submit a portfolio (see below) of his/her previous compositional work to the Composition faculty. The portfolio acts as the equivalent of an audition. Prospective students seeking to enter this program must also be able to begin at the Music 123, 125, and 127 level as determined by the Theory Placement Exam. Those students who do not meet this criterion may be advised to enter the program on a probationary basis, but must take Music 1, Theory Fundamentals, receive a final grade of B or better, and resubmit his/her Composition Portfolio before a final admission and placement decision is determined by the Music Composition Area.
Required Application Portfolio. The portfolio should contain the applicant’s best three to five representative works. At least one copy of a written score is required. The score may be of any ensemble configuration, from large ensemble to piano solo. Computer-generated scores are acceptable but not required. Copies of recordings in a CD or cassette format is expected. The compositions on the recordings may or may not be the same compositional scores submitted with your portfolio. Other possible formats for compositions are Standard MIDI File, a video of a composition’s performance, or sound track to a video work. This latter may be a collaborative work with video artist(s). Group compositions are not acceptable. There is no particular style requirement for applicants, nor is there is a duration requirement for his/her representative works. However, they must be complete works.

Required Piano Proficiency. Upon entry, all composers must audition on piano. Piano Proficiency will be assessed at either the 100 or 200 level. Those placed at the 100 level must take a minimum of six semesters of piano. All students entering at the 200 level must take four semesters of piano. Piano proficiency is satisfied by demonstrated ability to play works of moderate difficulty, such as Bach's Two-part Inventions, Bartok's Mikrokosmos Book IV, Schumann's "Kinderszenen", or Easy to Intermediate Classics. This level of proficiency successfully demonstrates completion of the Piano Proficiency requirement and must be met for the completion of the BFA Depending on audition results, a student may be required to enroll in MUSPERF 1, Piano Fundamentals, for up to two semesters or until he/she receives a final grade of B or better, before advancing to 100 level Piano. Deficiencies are made up without credit.

A student who is deficient in any of the above may be admitted conditionally, but only after evaluation and approval by the Composition Area. Contact the Composition Area for further information.

Graduation Requirements. Completion of the BFA in Music Composition and Technology will require each student to compose a minimum of five compositions over the lifetime of their program. While a minimum of three works must be written for solo or small ensemble, and one work for solo electronic or combined electronic and acoustic instrument(s), one work may be for large ensemble (orchestra, chamber, wind symphony, or choir). Of the five works required, three works must be presented publicly, each a minimum of nine minutes in duration.

Senior Recital or Thesis Requirement. In the semester the student intends to graduate, he/she must either register for Senior Recital or Senior Thesis. Registering for Senior Recital stipulates a public recital of the student’s compositions lasting a minimum of one hour in duration. Registering for Senior Thesis requires the student to submit the following to the Composition Faculty: a final composition portfolio, which consists of the five required compositions, along with recordings (as available). Additionally, printed programs representing the public presentation of three works are required.

Peck School of the Arts Requirements. Music Composition and Technology majors must take a minimum of 3 credits in Film and 3 credits in Art when fulfilling their 12 credits in the Peck School of the Arts, outside of Music. Suggested courses are: Film 201, 202, or 203, Art 118, 228, or “Special Topics: Web or Multimedia” courses or subtitled workshops in the digital arts on the department level.

Foreign Language Requirements. Six credits at 200 level or above are required.

Performance Organization Requirements. A minimum of 7 credits of any approved music ensemble with a minimum of 2 credits in a combination of either the University Choir or Concert Chorale plus a minimum of 3 credits in a combination of either Contemporary Music Ensemble, or Beginning Percussion Ensemble. Other approved music ensembles are: University Band, Symphony Band, Symphony Orchestra, and Wind Ensemble. Additional credits may be taken and/or serve as electives in Jazz Ensemble, Percussion Ensemble, Collegium Musicum, or Guitar Ensemble.

Required Music Courses

Music Performance Courses, 7 cr. See Performance Organization Requirements.

Piano, 6 cr. See Required Piano Proficiency.

Music Theory, 23 cr.
**Music Technology, 12 cr.**

**Composition, 12 cr.**

**Music History, 14 cr.**

**Conducting, 2 cr.**

**Composition Colloquium, 8 sem.** See Composition Colloquium\(^1\), 0 cr.

**Senior Thesis or Senior Recital, 2 cr.**

**Music or General Electives, 5 cr.**

**Convocation, 6 semesters** See Convocation\(^2\), 0 cr.

**MUSIC COMPOSITION AND TECHNOLOGY CURRICULUM**

Recommended course order.

### Freshman Year â€“ Semester I

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<tr>
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<td>MUSIC 123</td>
<td>Aural Theory I</td>
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<td>MUSIC 125</td>
<td>Keyboard Harmony I</td>
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**Core Curriculum** 4

**PSOA Arts Electives** 3

**Total** 16

### Freshman Year â€“ Semester II

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**Core Curriculum** 4

**PSOA Arts Elective** 3

**Total** 17

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MUSIC 227 Keyboard Harmony III 1
MUSIC 328 Digital Synthesis and Systems II 3
MUSIC 211 General History of Western Music I 3
MUSPERF 361 Composition Lesson 1
MUSIC 120\(^1\) Composition Colloquium 0
MUSIC 107\(^2\) Convocation 0
Core Curriculum 4
Total 17

**Sophomore Year â€“ Semester II**

MUSPERF 101 Piano 1
MUSIC xxx Performance Organization 1
MUSIC 230 Form Analysis 3
MUSIC 212 General History of Western Music II 3
MUSPERF 361 Composition Lesson 1
MUSIC 120\(^1\) Composition Colloquium 0
MUSIC 107\(^2\) Convocation 0
PSOA Arts Electives Film 201, 202, or 203 3
Core Curriculum 5
Total 17

**Junior Year â€“ Semester I**

MUSPERF 101 Piano 1
MUSIC xxx Performance Organization 1
MUSIC 307 General History of Western Music III 3
MUSIC 321 Counterpoint 3
OR
MUSIC 421 Materials of Contemporary Music 3
MUSIC 461 Composition Lesson 2
MUSIC 120\(^1\) Composition Colloquium 0
MUSIC 107\(^2\) Convocation 0
PSOA Arts Electives Art 118, 228, or Special Topics: Web or Multimedia 3
Core Curriculum 4
Total 17

**Junior Year â€“ Semester II**

MUSPERF 101 Piano 1
MUSIC xxx Performance Organization 1
MUSIC 314 Music of the 20th Century 3
MUSIC 323 Instrumentation 3
MUSIC 420 Advanced Computers and Music 3
MUSIC 461 Composition Lesson 2
MUSIC 120\(^1\) Composition Colloquium 0
MUSIC 107\(^2\) Convocation 0
Core Curriculum 4
Total 17

**Senior Year â€“ Semester I**

MUSIC xxx Performance Organization 1
MUSIC 321 Counterpoint 3
OR
MUSIC 421 Materials of Contemporary Music 3
### Bachelor of Arts in Music

**Required Music Courses:** The following courses are required.

- **Music Performance Courses, 8 cr.** A total of eight semesters of Principal Instrument studies are required.
- **Performance Organization, 8 cr.** A total of eight semesters of Performance Organization are required.
- **Music Theory, 17 cr.**
- **Music History and Literature, 15 cr.** Introduction to World Musics (Mus 310) is required.
- **Music Convocation, 6 sem.** See Recital and Convocation attendance.
- **Special Core Curriculum Requirements.** 0-6 credits of foreign language, which may be fulfilled by two years of a high school course or by up to 6 credits at college level.
- **General Electives, 27 cr.**

### Bachelor of Arts in Music

**Recommended curricular order.**

**Freshman Year - Semester I**

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**Senior Year - Semester I**

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Certificate in Rock and Roll Studies

The Certificate Program in Rock and Roll Studies prepares students to use the tools of ethnomusicology, musicology, literature studies, and cultural studies to examine American vernacular music in a way previously reserved for what is called "classical music."

The certificate program is open to all students seeking a bachelor's degree from UWM and to students who already have a degree from UWM or any other accredited college or university. Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor's degree receive the certificate upon completion of the program requirements.

To obtain the certificate, students must complete a minimum of 24 credits from the following list of required and elective courses, with a GPA of 2.75 or above. At least 9 of these credits must be at the 300 level or above, and the following requirements must be met. All courses are 3 credits unless otherwise noted.

Required Core Curriculum (15 credits)

MUSIC 102 American Popular Music 3
MUSIC 300 The Literary Aspects of Rock and Roll 3
MUSIC 309 American Folk and Popular Music 3
MUSIC 409 Folk Music in Contemporary Culture 3
MUSIC 509 Certificate Program in Rock and Roll Studies Capstone 3

Elective Curriculum (To be selected from the following list - 9 credits)

MUSIC 317 American Music 3
MUSIC 409 Rock and Roll Criticism 3
MUSIC 489 The Art of Songwriting: Rock and Roll Idiom Lyrics 3
MUSIC 478 Fingerstyle History and Performance 3
FILM 115 Media Archeology 3
ENGLISH 111 Entertainment Arts: Film, Television, and the Internet 3
ENGLISH 235 Writing Poetry: Forms, Styles, Voices 3
ENGLISH 248 Literature and Contemporary Life 3
ENGLISH 274 Literature and the Other Arts 3
ENGLISH 383 Rock and Roll Cinema 3
FILMSTD 212 Intermediate Topics in Film Studies 3
HIST 271 The 1960s in the United States: A Cultural History 3
HIST 272 Blues History and Culture 3
HIST 404 Hip-Hop History and Culture 3
Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program coordinator.
The Department of Film, Video, Animation, and New Genres in the Peck School of the Arts offers an integrated program of study leading to a BFA in Film.

NOTE: Students in Film/Video/Animation/New Genres are required to have a laptop computer and video editing software.

FILM BFA DEGREE REQUIREMENTS

Film/Video/Animation/New Genres

The Film/Video/Animation/New Genres program leading to the Bachelor of Fine Arts degree in Film requires 120 credits distributed as follows:

1. University Core Curriculum (includes Arts Distribution Requirement), 45 credits.
3. Pre-Portfolio Studios (choose two): FILM 220, 222, 232, 255; 6 credits.
4. Film/Video/Animation/New Genres Electives*, including FILM 380, 420, and 460; 15 credits.
5. Contextual Electives, including FILM 316, 319, 434; 6 credits.
6. Complementary Electives, 12 credits.
7. Senior Project: FILM 509, 510; 9 credits.
8. General Electives chosen from any departments outside of Film; 9 credits.

Course of Study. The Film/Video/Animation/New Genres degree program is an integrated course of study in which students create individual projects in film, video, or other media every semester. This is accomplished through a required sequence of six Department Foundation courses and two Pre-Portfolio Studios, followed by a series of required
and elective courses in the 66-credit major.

**Admission to the Major.** Students are admitted to the Film/Video/Animation/New Genres major as a result of a portfolio review that occurs upon completion of the UWM Oral and Written Communication (OWC) Part A requirement and the Quantitative Literacy (QL) Part A requirement, 18 credits of work in the Department Foundation Curriculum (FILM 114, 116, 117, 201, 202, and 210), 6 credits of the Pre-Portfolio Studios (FILM 220, 222, 232, 255) and the Film/Video/Animation/New Genres portfolio review.

The following outline will serve as a guide in planning for studies in Film/Video/Animation/New Genres. Students are encouraged to consult regularly with their school and departmental advisors as well. All course waivers or changes in the requirements of the major must have the written approval of the department chair.

**Film/Video/Animation/New Genres Recommended Curriculum**

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<td>Film &amp; Experience: The Filmmaker and the Viewer</td>
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<td>FILM 116</td>
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*Portfolio review - Two projects made in Pre-Portfolio Studio classes (220, 222, 232, 255) and a copy of current academic transcript submitted to departmental faculty for review at beginning of final examination period of either fall or spring semester.*

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<tr>
<td>FILM 420</td>
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<td><strong>Total Credits Required for Graduation with BFA</strong></td>
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1 Arts Distribution Requirement. Twelve credits are required in Peck School of the Arts courses outside of the Film Department. Three credits must be taken in three different Arts disciplines: Art and Design, Dance, Music, or Theatre. The remaining three credits may be taken in any one of the four disciplines outside of Film.

2 Consult your academic advisor in the Peck School of the Arts Student Services Office for electives in the PSOA Core Curriculum and General Education Requirement courses.

** When pre-portfolio sections other than FILM 114, 116 or 117 are overenrolled, admission is by grade point average in previous department courses.

**Film/Video/Animation/New Genres Electives**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>FILM 341</td>
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<td>FILM 380</td>
<td>Media Arts Module: (Subtitled)</td>
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<td>FILM 389</td>
<td>Media Arts Workshop: (Subtitled)</td>
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<td>FILM 399</td>
<td>Advanced Independent Study</td>
<td>3-6</td>
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<tr>
<td>FILM 420</td>
<td>Intermediate Media Arts Module: (Subtitled)</td>
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<td>FILM 450</td>
<td>Advanced Internship/Professional Practice</td>
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<td>FILM 455</td>
<td>Integrated Film/Video Exploration</td>
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## Courses

### Contextual Electives

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<tbody>
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<td>Filmmaker as Theorist/Practitioner: (Subtitled)</td>
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<td>FILM 318</td>
<td>Film and the Visual and Performing Arts: (Subtitled)</td>
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<td>FILM 319</td>
<td>Film Genres: (Subtitled)</td>
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<td>FILM 320</td>
<td>Structures of Film</td>
<td>3</td>
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<td>FILM 341</td>
<td>Theory/Practice Seminar</td>
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<td>FILM 399</td>
<td>Advanced Independent Study</td>
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<tr>
<td>FILM 434</td>
<td>Film Aesthetics: (Subtitled)</td>
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<td>Advanced Internship/Professional Practice</td>
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### Complementary Electives

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<td>FILM 203</td>
<td>Media Workshop: (Subtitled)</td>
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<tr>
<td>FILM 220</td>
<td>Basic Elements of Filmmaking</td>
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<td>FILM 222</td>
<td>Basic Elements of Video</td>
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<td>FILM 232</td>
<td>Animation I</td>
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<td>FILM 234</td>
<td>Introduction to Screenplay</td>
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<td>FILM 250</td>
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<td>FILM 251</td>
<td>Theory/Practice Workshop: (Subtitled)</td>
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<td>FILM 255</td>
<td>Introduction to Digital Arts</td>
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<tr>
<td>FILM 297</td>
<td>Study Abroad</td>
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<td>FILM 299</td>
<td>Independent Study</td>
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<tr>
<td>FILM 301</td>
<td>Conversations with Filmmakers and Critics: (Subtitled)</td>
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<td>FILM 302</td>
<td>Video in the Classroom</td>
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<tr>
<td>FILM 316</td>
<td>Filmmaker as Theorist/Practitioner: (Subtitled)</td>
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<tr>
<td>FILM 318</td>
<td>Film and the Visual and Performing Arts: (Subtitled)</td>
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<td>Film Genres: (Subtitled)</td>
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<td>FILM 320</td>
<td>Structures of Film</td>
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<td>MUSIC 327</td>
<td>Analog and Digital Synthesis I</td>
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<td>MUSIC 328</td>
<td>Digital Synthesis and Systems II</td>
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<td>MUSIC 420</td>
<td>Advanced Computing and Music</td>
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<td>ARTHIST 358</td>
<td>Modern Painting I: 1850-1900</td>
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<td>Modern Painting II: 1900-Present</td>
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<td>History of Photography</td>
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<td>ARTHIST 366</td>
<td>German Painting 1800-1933</td>
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<tr>
<td>ARTHIST 463</td>
<td>Cubism and Its Inheritance</td>
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</tbody>
</table>
Peck School of the Arts

Theatre

The Theatre Department at UW-Milwaukee (UWM) focuses on communication, innovation, and collaboration through theatre-making and theatre scholarship. It teaches theatre as a way of changing, exploring, analyzing, reflecting, and impacting society and the people in it. The department’s urban setting provides access to a thriving professional arts community with opportunities to engage with the region’s many cultural groups and institutions through service learning, mentoring and internships, fieldwork, and practicum placements. These experiences support students interested in developing as artists, educators, and scholars by actively exploring their role as theatre makers in the creation of community.

Degree Programs

The Theatre Department offers two separate degree majors. These are the Bachelor of Fine Arts (BFA) in Theatre, with tracks in Acting, Costuming, Stage Management, and Technical Production, and the Bachelor of Arts (BA) in Theatre, which includes a track in K-12 Theatre Education. Theatre study, in all degree programs within the department, begins with a common core of course experiences designed to provide learning opportunities encouraging participants to engage with theatre as a way of seeing, understanding, and communicating culture.

General Education. Theatre students must complete the General Education Requirements (GER) in Oral and Written Communication Competency (OWC), Quantitative Literacy Competency (QL), and Foreign Language proficiency requirements prior to enrolling in 310 level or above theatre courses (see four-year plan suggestions below).

Laptop Requirement. Theatre students in all areas are encouraged to have a laptop computer. Theatre Education, Stage Management, and Technical Production students are required to acquire a laptop computer. See Theatre website for more information.

Admission/Retention. To be accepted and continue in good standing within any Theatre degree program, students must meet or exceed all general university requirements, have and maintain a 2.50 GPA overall (with the exception of Theatre Education majors). BA degree majors must then maintain a 2.75 GPA within the major, with the exception of Theatre Education majors, who must maintain a 3.0 in their major. All BFA Theatre majors must maintain a 3.0 in the major after being accepted into their program.

Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students will be put on probation or be denied continuation in their program if they receive a D grade or lower in any Theatre Core course.
Theatre Education intended majors must pass the PPST test before being accepted as a major. As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test before being allowed to engage in their student teaching fieldwork.

**Continuation.** Students who are in danger of being dropped or put on probation will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee, which consists of three full-time tenure track, indefinite status, or tenured theatre faculty; a faculty member of the student's own choosing, and the Theatre Department Chair. In addition, a Peck School of the Arts Student Services Advisor will be present at the appeals committee meeting as a nonvoting member. Appeals committee findings will be given to the student in writing and in a timely manner.

**Capstone.** All programs and tracks in undergraduate programs within the Theatre Department require a capstone experience. The Theatre Capstone serves as a laboratory for students and provides a framework for application of developing skills and knowledge. Depending on semester, program, or project, Capstones are executed and evaluated within the following courses:

**BA Degree**
- THEATRE 410 (Stage Directing)
- THEATRE 465 (Theatre Capstone)
- THEATRE 472 (Performance Workshop Capstone)
- THEATRE 475 (Rehearsal and Performance)
- THEATRE 485 (Elem. Level Student Teaching in Theatre), and
- THEATRE 486 (Secondary Level Student Teaching in Theatre)

**BFA Acting Degree**
- THEATRE 571 (Acting 6)

**BFA Costume Construction, Production, and Stage Management Degree**
- THEATRE 675 (Advanced Studio) or
- THEATRE 685 (Internship-Professional Internship)

Capstone evaluations are used to assess student outcomes and program goals.

**BACHELOR OF FINE ARTS (BFA) IN THEATRE**

The Bachelor of Fine Arts (BFA) in Theatre is a 130-credit program providing intensive specialized coursework for students seeking professional training in one of four separate tracks: Acting, Costume Production, Stage Management, or Technical Production. The BFA focuses on uncovering the potential of the individual student in the development of personal performance and/or production practices. Admission to each BFA track is selective and competitive.

The BFA curriculum supports student exploration of theatrical processes. This includes new works as well as the established canon of dramatic literature. The program approaches these in fresh and innovative ways, giving students a wide range of tools to speak to the contemporary moment.

The specialized tracks in the BFA build on the objectives of the department’s core curriculum to develop, within each student, a deepened, strengthened, and developing professional level of competency. Each track of specialization follows an integrated curriculum that is based on an intensive, specialized array of courses. These focused arcs of training endow students with a sense of their own identity as artists and prepare them for advanced graduate study or entry into the profession of theatre practice. Students must continue to show artistic growth and progress and meet academic grade requirements (see above) to continue the program. Progress reviews are conducted each semester.
**BFA Acting:** The program builds on the objectives of the department’s core curriculum to develop within the student a deepened, strengthened, and professional level of competency in acting and a sense of identity as a performing artist. It prepares students for advanced graduate study in performance or entry into the profession of theatre practice.

**BFA Costume Production:** The program teaches the art and craft of creating costumes for the stage, developing skills that will place students in professional theatre costume shops in the United States or on the path to higher education in costume design and construction.

**BFA Stage Management:** The program develops students’ practical management, communication, and technical theatre skills and techniques to successfully manage rehearsals and performances of theatrical and related entertainment events.

**BFA Technical Production:** The program provides students with education and skills in many technical areas of theatre including scenery production, properties production, lighting and sound. Students will be prepared for careers in the professional theatre shops or continued study at the graduate level.

**Application Process.** The Theatre BFA is in compliance with all general requirements for undergraduate degrees including the general education, continuation, and laptop program requirements (see above). In addition, admission to each BFA track is selective and competitive based on an audition (Acting) or interview/portfolio review (Costume Production, Stage Management, and Technical Production). Prospective students are encouraged to pre-audition or pre-apply to the Theatre BFA programs during their senior year of high school. Accepted students will gain full admission to their BFA Program on successful completion of their GER core competency requirements. For more information on the application process and to apply online go to: [www.uwm.edu/psoa/theatre/bfa](http://www.uwm.edu/psoa/theatre/bfa)

Application to the BFA is encouraged following successful completion of the first-year (Freshman) Theatre Core sequence (see schedule in suggested 4-year plans below).

BFA program applicants must submit the following:

1. A separate application form;
2. A statement of purpose;
3. A current resume;
4. Copies of high school or appropriate college transcripts (for transfer students). [Unofficial copies are acceptable for departmental purposes.];
5. Two letters of recommendation, preferably from instructors familiar with the student’s artistic and/or academic abilities. Letters should be submitted in signed and sealed envelopes and will remain confidential and the property of UWM; and
6. Acting candidates should submit an 8"x10" black & white photo.

Following review of applications, all candidates will be contacted for interviews. Acting candidates will audition as part of their selection process; Costume, Stage Management, and Technical Production candidates will have an opportunity to present portfolio samples of their work/experience.

**End-of-Semester-Review Process.** BFA Theatre faculty will assess student's academic and artistic growth through individual conferences at the end of each semester.

**Student Evaluation.** All BFA Theatre majors who do not demonstrate a consistent level of artistic and academic improvement and maintain at least a 3.0 GPA in their program may not advance, may be placed on probation, and/or dropped from the program.

**Appeal Process.** Any BFA Theatre major who is dropped from the program has the right to appeal. The appeals committee will consist of two full-time tenure track, academic staff, or tenured faculty from the Peck School of the Arts, a faculty member of the student’s own choosing, and the faculty member who oversees the specific degree track. In
addition, a Peck School of the Arts Student Services advisor will be present as a nonvoting member. Outcome(s) of the appeal will be given to the student in writing and in a timely manner.

### BFA DEGREE REQUIREMENTS

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<th>Requirement</th>
<th>Credits</th>
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<tr>
<td>Theatre Department Core</td>
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<tr>
<td>BFA Track Requirements and Electives</td>
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<tr>
<td><strong>Total to Graduate</strong></td>
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</tbody>
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#### UNIVERSITY CORE CURRICULUM

**45 cr.**

**Competencies**

- Oral and Written Communication Competency "Part A & Part B"
- Quantitative Literacy (QL) Competency "Part A & Part B"
- Foreign Language

#### General Education Requirements: Credits Outside the Peck School of the Arts

- Humanities 6
- Natural Sciences (must include one lab) 6
- Social Sciences 6
- Cultural Diversity course (May be met by any designated 3-credit course approved for GER distribution in the humanities, social sciences, or arts.) 6
- Additional Electives 12

#### Credits in Peck School of the Arts (outside of Theatre) (3 credits in at least 3 different areas) 12

- University Credits (outside of Theatre) 3

#### THEATRE DEPARTMENT CORE (All Programs) 32 cr.

- One of the following:
  - THEATRE 110 Acting 1 3
  - OR
  - THEATRE 101 Acting for Non-Majors 3
  - OR
  - THEATRE 204 Participatory Theatre 3
  - OR
  - THEATRE 260 Storytelling: (Subtitle) 3
  - THEATRE 230 Acting 2 3
  - THEATRE 213 Play Analysis 3
  - THEATRE 214 Stagecraft (with lab) 4
  - THEATRE 225 Costume Construction (with lab) 4
  - THEATRE 236 Theatre Production and Design 3
  - THEATRE 275 Performing Arts Management 3
  - THEATRE 305 Milwaukee Theatrical Experience 3
  - THEATRE 321 The Theatre â€“ Beginning through Realism 3
  - THEATRE 322 The Theatre â€“ Modern and Contemporary Period 3

#### BFA TRACK REQUIREMENTS 53 cr.

#### ACTING

**Required Courses**
THEATRE 224  Theatrical Makeup 3
THEATRE 430  Stage Voice and Speech 1 3
THEATRE 431  Stage Voice and Speech 2 3
THEATRE 440  Physical Performance 1 3
THEATRE 441  Physical Performance 2 3
THEATRE 470  Acting 3 4
THEATRE 471  Acting 4 4
THEATRE 475  Rehearsal and Performance (2-3 cr. As assigned, repeatable.) 6
THEATRE 530  Stage Voice and Speech 3 3
THEATRE 531  Stage Voice and Speech 4 3
THEATRE 540  Physical Performance 3 3
THEATRE 541  Physical Performance 4 3
THEATRE 570  Acting 5 4
THEATRE 571  Acting 6 4
Electives  Electives as discussed with advisor 4

Acting: Example of Required Courses in 4-Year Plan 130 Credits

Year 1 32 cr.

FALL SEMESTER

University Core  General Education Requirements 6
THEATRE 110  Acting 1 3
THEATRE 225  Costume Construction 4
PSOA Core  Required Elective 3

SPRING SEMESTER

University Core  General Education Requirements 6
THEATRE 214  Stagecraft 4
THEATRE 230  Acting 2 3
THEATRE 236  Production & Design 3

Year 2 32 cr.

FALL SEMESTER

THEATRE 213  Play Analysis 3
THEATRE 430  Stage Voice & Speech 3
THEATRE 440  Physical Performance 3
THEATRE 470  Acting 3 4
University Core  General Education Requirements 3

SPRING SEMESTER

THEATRE 224  Makeup 3
THEATRE 431  Stage Voice & Speech 2 3
THEATRE 441  Physical Performance 2 3
THEATRE 471  Acting 4 4
University Core  General Education Requirements 3

Year 3 34 cr.
### FALL SEMESTER

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<td>THEATRE 531</td>
<td>Stage Voice &amp; Speech</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 541</td>
<td>Physical Performance</td>
<td>4</td>
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<tr>
<td>THEATRE 571</td>
<td>Acting</td>
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**Year 4**

- **32 cr.**

### FALL SEMESTER

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<td>THEATRE 305</td>
<td>Milwaukee Theatrical Experience</td>
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</tr>
<tr>
<td>THEATRE 321</td>
<td>Theatre History 1</td>
<td>3</td>
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<td>THEATRE 475</td>
<td>Rehearsal &amp; Performance</td>
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### SPRING SEMESTER

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<tr>
<td>THEATRE 322</td>
<td>Theatre History 2</td>
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<tr>
<td>THEATRE 475</td>
<td>Rehearsal &amp; Performance</td>
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### COSTUME PRODUCTION

**53 cr.**

- **36 cr.**

#### Required Courses

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<td>THEATRE 285</td>
<td>Costume Construction 2</td>
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<td>THEATRE 301</td>
<td>Theatrical Millinery</td>
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<td>THEATRE 325</td>
<td>Costume History</td>
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<td>THEATRE 332</td>
<td>Tailoring</td>
<td>3</td>
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<td>THEATRE 343</td>
<td>Patternmaking 1</td>
<td>3</td>
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<tr>
<td>THEATRE 354</td>
<td>Draping</td>
<td>3</td>
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<tr>
<td>THEATRE 412</td>
<td>Career Preparation and Development</td>
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<tr>
<td>THEATRE 575</td>
<td>Studio (4 cr.; repeated three times during four years)</td>
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<td>THEATRE 675</td>
<td>Advanced Studio</td>
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<td>OR</td>
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<td>THEATRE 685</td>
<td>Internship in Professional Theatre</td>
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#### Select from the Following Electives

- **17 cr.**

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<td>Costume Design</td>
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<td>THEATRE 308</td>
<td>Advanced Makeup</td>
<td>3</td>
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<td>THEATRE 315</td>
<td>Advanced Properties Production</td>
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<td>THEATRE 401</td>
<td>Fabric Painting and Dyeing</td>
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<td>THEATRE 415</td>
<td>Casting and Molding</td>
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<td>THEATRE 435</td>
<td>Production Management</td>
<td>3</td>
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<td>THEATRE 480</td>
<td>Leadership for Theatre Management</td>
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<td>THEATRE 699</td>
<td>Independent Study</td>
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**Costume Production: Example of Required Courses in 4-Year Plan**

<table>
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<th>32 cr.</th>
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<tbody>
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<td>Costume Construction</td>
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<td>THEATRE 305</td>
<td>Milwaukee Theatrical Experience</td>
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<td>THEATRE 214</td>
<td>Stagecraft</td>
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<td>THEATRE 285</td>
<td>Costume Construction 2</td>
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<td>THEATRE 110, or 204, or 260</td>
<td>Acting Participatory/Story</td>
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<td>Play Analysis</td>
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<td>THEATRE 275</td>
<td>Performing Arts Management</td>
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<td>THEATRE 304</td>
<td>Costume Design (required elective)</td>
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<tr>
<td>University Core</td>
<td>Required Electives</td>
</tr>
<tr>
<td>THEATRE 230</td>
<td>Acting 2</td>
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<tr>
<td>THEATRE 236</td>
<td>Production &amp; Design</td>
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<td>Required Elective</td>
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<td>THEATRE 301</td>
<td>Theatrical Millinery</td>
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<td>THEATRE 321</td>
<td>Theatre History 1</td>
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<td>THEATRE 343</td>
<td>Patternmaking</td>
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<td>THEATRE 354</td>
<td>Draping</td>
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| **SPRING SEMESTER** | |

**Total Credits:** 130
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**Year 4**

**33 cr.**

**FALL SEMESTER**

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<td>224/315/401</td>
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**SPRING SEMESTER**

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**STAGE MANAGEMENT**

**53 cr.**

**Required Courses**

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<td>Properties Production</td>
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<td>THEATRE 218</td>
<td>Drafting and Design Communication</td>
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<td>THEATRE 380</td>
<td>Stage Management</td>
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<td>THEATRE 388</td>
<td>Lighting Production</td>
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<td>THEATRE 337</td>
<td>Sound Production</td>
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<td>OR</td>
<td>Digital Audio Workstations</td>
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<td>THEATRE 410</td>
<td>Stage Directing</td>
<td>3</td>
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<tr>
<td>THEATRE 412</td>
<td>Career Preparation</td>
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<td>THEATRE 475</td>
<td>Rehearsal and Performance (2-3 cr. As assigned, repeatable.)</td>
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<td>THEATRE 480</td>
<td>Leadership for Theatre Management</td>
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<td>THEATRE 575</td>
<td>Studio</td>
<td>3</td>
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<td>THEATRE 675</td>
<td>Advanced Studio</td>
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<tr>
<td>OR</td>
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**Recommended electives are chosen in consultation with each student's departmental advisor.**

**18 cr.**

**Stage Management: Example of Required Courses in 4-Year Plan**

**130 Credits**

**Year 1**

**32 cr.**

**FALL SEMESTER**

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<td>THEATRE 225 Costumes Construction</td>
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<tr>
<td>THEATRE 275 Performing Arts Management</td>
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<td>PSOA Core</td>
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<td>THEATRE 575 Studio</td>
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### PSOA Core

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### SPRING SEMESTER

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<td>THEATRE 685</td>
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### TECHNICAL PRODUCTION

#### Required Courses

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<td>Drafting and Design Communication</td>
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<td>Computer-Aided Drafting for Theatre</td>
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<td>THEATRE 314</td>
<td>Scenic Production</td>
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<td>THEATRE 337</td>
<td>Sound Production</td>
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<td>THEATRE 338</td>
<td>Lighting Production</td>
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<td>THEATRE 412</td>
<td>Career Preparation and Development</td>
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<tr>
<td>THEATRE 575</td>
<td>Studio (4 cr.; repeated three times during four years)</td>
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#### Select from the Following Electives

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<td>Scenic Painting</td>
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<td>THEATRE 357</td>
<td>Digital Audio Workstation</td>
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<td>THEATRE 401</td>
<td>Fabric Painting and Dyeing</td>
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<td>Casting and Molding</td>
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<td>THEATRE 418</td>
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<td>THEATRE 437</td>
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<td>THEATRE 699</td>
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### Technical Production: Example of Required Courses in 4-Year Plan

**Year 1**

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<td>THEATRE 110, 204, or 260</td>
<td>Acting Participatory/Story</td>
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<td>THEATRE 225</td>
<td>Costume Construction</td>
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### SPRING SEMESTER
University Core General Education Requirements 9
THEATRE 214 Stagecraft 4
THEATRE 305 Milwaukee Theatrical Experience 3

Year 2 33 cr.

FALL SEMESTER

University Core Required Electives 6
THEATRE 213 Play Analysis 3
PSOA Core Required Elective 3
THEATRE 275 Performing Arts Management 3

SPRING SEMESTER

University Core Required Electives 6
THEATRE 230 Acting 2 3
THEATRE 236 Production & Design 3
PSOA Core Required Electives 6

Year 3 32 cr.

FALL SEMESTER

THEATRE 218 Drafting & Design Communication 3
THEATRE 314 Scenic Production 3
THEATRE 321 Theatre History 1 3
THEATRE 338 Light Production 3
THEATRE 575 Studio 4

SPRING SEMESTER

THEATRE 215 Properties Production 3
THEATRE 219 Computer Drafting 3
THEATRE 322 Theatre History 2 3
THEATRE 337 Sound Production 3
THEATRE 575 Studio 4

Year 4 33 cr.

FALL SEMESTER

THEATRE 412 Career Prep 2
THEATRE 575 Studio 4
THEATRE Required Electives 9
315/357/401/418
PSOA Core Required Elective 3

SPRING SEMESTER

THEATRE 675 or Advanced Studio or Internship 4
685
THEATRE Required Electives 8
**BACHELOR OF ARTS (BA) IN THEATRE.**
The Bachelor of Arts (BA) in Theatre focuses on communication, innovation, and collaboration through theatre-making and theatre scholarship. It encourages students to experience theatre as a creative endeavor that influences society and the people in it. The program sustains students’ engagement and learning so they may develop as artists, educators, and scholars actively engaged in their role as theatre makers in the creation of community.

The BA program is designed to support the breadth of theatre learning through socially responsive, creative, and educative practices. The curriculum focuses on site-specific work, educational theatre, applied, critical, civically engaged, and devised work. The program requires students to engage with theatre in multiple settings, institutions and cultures - the stage, the classroom, and the community at large. The BA in Theatre also supports a professional track area for students seeking a Wisconsin Theatre Teaching license in PK4-12 Theatre.

**Program Requirements.** The Bachelor of Arts (BA) in Theatre is a 120-credit program. BA Theatre majors are required to fulfill the department’s core then focus their study on educational and social justice theatre, creative storytelling, and civic engagement through theatre, ethnographic drama, playwriting, and dramaturgical research. For more information please see: [www.uwm.edu/psoa/theatre/ba](http://www.uwm.edu/psoa/theatre/ba)

BA Theatre students execute a capstone production/project as a culminating demonstration of their learning. PK4-12 Theatre Education students complete their capstone experience through student teaching. The BA capstone is overseen by faculty and may include off-site work. All capstones and student teaching are evaluated through a portfolio process.

Students electing to focus their major in Theatre Education are prepared as future urban Wisconsin Theatre teachers of grades PK4-12. On successful completion of all degree requirements, Theatre Education students are recommended for #325 Theatre licensure in the State of Wisconsin. For more information please see: [www.uwm.edu/psoa/theatre/ba/theatre-edu.cfm](http://www.uwm.edu/psoa/theatre/ba/theatre-edu.cfm)

**Bachelor of Arts in Theatre Curriculum.** The minimum degree requirement is 120 credits. BA Theatre Degree requirements (excluding the BA Theatre Education Track) are distributed as follows:

<table>
<thead>
<tr>
<th>BA DEGREE REQUIREMENTS</th>
<th>Total to Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum</td>
<td>45 cr.</td>
</tr>
<tr>
<td>Theatre Department Core</td>
<td>32</td>
</tr>
<tr>
<td>BA Track Requirements and Electives</td>
<td>43</td>
</tr>
<tr>
<td><strong>Total to Graduate</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

**UNIVERSITY CORE CURRICULUM**

**Competencies**

- Oral and Written Communication Competency “Part A & Part B
- Quantitative Literacy (QL) Competency “Part A & Part B
- Foreign Language

**General Education Requirement: Credits Outside the Peck School of the Arts**

- Humanities 6
- Natural Sciences (must include one lab) 6
- Social Sciences 6
- Cultural Diversity course (May be met by any designated 3-credit course approved for GER.) distribution in the humanities, social sciences, or arts 6
- Additional Electives 12
Credits in Peck School of the Arts (outside of Theatre) (3 credits in at least 3 different areas)

University Credits (outside of Theatre) 

THEATRE DEPARTMENT CORE (All Programs)  

Á 32 cr.

One of the following:
THEATRE 110  Acting 1

OR
THEATRE 101  Acting for Non-majors

OR
THEATRE 204  Participatory Theatre

OR
THEATRE 260  Storytelling: (Subtitle)

THEATRE 230  Acting 2

THEATRE 213  Play Analysis

THEATRE 214  Stagecraft (with lab)

THEATRE 225  Costume Construction (with lab)

THEATRE 236  Theatre Production and Design

THEATRE 275  Performing Arts Management

THEATRE 305  The Theatrical Experience

THEATRE 321  The Theatre â€“ Beginning through Realism

THEATRE 322  The Theatre â€“ Modern and Contemporary Period

BA THEATRE DEGREE REQUIREMENTS  

43 cr.

Required Courses  

25 cr.

THEATRE 204  Participatory Theatre (if not taken previously)

THEATRE 260  Storytelling: (Subtitle) (if not taken previously)

THEATRE 320  Performing Community

THEATRE 410  Stage Directing

One of the following:
THEATRE 218  Drafting and Design Communication

OR
THEATRE 359  Playwriting

One of the following:
THEATRE 304  Costume Design

OR
THEATRE 318  Scene Design

OR
THEATRE 323  Special Topics in Theatre History: (Subtitle)

OR
THEATRE 324  Theatre in the Americas - Latina/o Theatre

OR
THEATRE 325  Costume History

OR
THEATRE 330  Acting Topics

OR
THEATRE 357  Digital Audio Workstation

OR
THEATRE 418  Lighting Design

OR
THEATRE 437  Sound Design and Technology

One of the following:
THEATRE 448  The Creative Classroom: Drama and Arts Learning K-8
THEATRE 473 Theatre in Elementary Education 3
OR
THEATRE 474 Theatre in Secondary School 3
One of the following:
THEATRE 465 Theatre Capstone: (Subtitle) (Must take minimum of 2 cr.; may repeat twice.) 2-4
OR
THEATRE 472 Performance Workshop Capstone (Must take minimum of 2 cr.; may repeat twice.) 2-4

Recommended Electives: Electives are chosen in consultation with the individual student’s departmental advisor. Students are encouraged to take upper level courses (310 and above) and/or courses in BFA programs (after their degree requirements have been met, with permission from course instructors).

The following BA electives (non-required courses) are offered irregularly as electives in the major:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEATRE 108</td>
<td>Introduction to Musical Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 111</td>
<td>Theatre Games</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 202</td>
<td>Theatre Practicum</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 224</td>
<td>Theatrical Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 231</td>
<td>Voice and Speech</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 308</td>
<td>Advanced Stage Makeup</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 311</td>
<td>Advanced Theatre Games</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 339</td>
<td>Stage Combat</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 360</td>
<td>Service Learning in Theatre</td>
<td>1</td>
</tr>
<tr>
<td>THEATRE 407</td>
<td>Contemporary Theatre Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 432</td>
<td>Advanced Practicum</td>
<td>2</td>
</tr>
<tr>
<td>THEATRE 497</td>
<td>Study Abroad in Theatre</td>
<td>1-12</td>
</tr>
<tr>
<td>THEATRE 694</td>
<td>Independent Study in Directing</td>
<td>1-4</td>
</tr>
<tr>
<td>THEATRE 695</td>
<td>Independent Study - History, Literature, and Criticism</td>
<td>1-6</td>
</tr>
<tr>
<td>THEATRE 696</td>
<td>Independent Study - Playwriting</td>
<td>1-6</td>
</tr>
<tr>
<td>THEATRE 697</td>
<td>Independent Study - Theatre Education and Theatre for Young Audiences</td>
<td>1-6</td>
</tr>
</tbody>
</table>

BA Theatre: Example of Required Courses in 4-Year Plan 120 Credits

Year 1 30 cr.
FALL SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>General Education Requirements</td>
<td>9</td>
</tr>
<tr>
<td>THEATRE 110</td>
<td>Acting 1</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 213</td>
<td>Play Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

SPRING SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>General Education Requirements</td>
<td>9</td>
</tr>
<tr>
<td>THEATRE 230</td>
<td>Acting 2</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 275</td>
<td>Performing Arts Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Year 2 32 cr.
FALL SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>Required Electives</td>
<td>6</td>
</tr>
<tr>
<td>THEATRE 224</td>
<td>Costume Construction</td>
<td>4</td>
</tr>
<tr>
<td>THEATRE 236</td>
<td>Production and Design</td>
<td>3</td>
</tr>
<tr>
<td>THEATRE 260</td>
<td>Storytelling</td>
<td>3</td>
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</tbody>
</table>

SPRING SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core</td>
<td>Required Electives</td>
<td>6</td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Participatory Theatre</td>
<td>3</td>
</tr>
</tbody>
</table>
THEATRE 214  Stagecraft  4
THEATRE 305  Milwaukee Theatrical Experience  3

Year 3  30 cr.

FALL SEMESTER

PSOA Core  Required Electives  6
THEATRE 218 or 359  Design Communication/Playwriting  3
THEATRE 321  Theatre History 1  3
THEATRE 448 or 475  Theatre Education Methods  3

SPRING SEMESTER

THEATRE 320  Performing Community  3
THEATRE 322  Theatre History 2  3
PSOA Core  Required Elective  3
BA Degree Elective  Elective  3
University Core  General Elective  3

Year 4  28 cr.

FALL SEMESTER

PSOA Core  Required Elective  3
BA Degree Elective  Electives  6
THEATRE 410  Directing  3
THEATRE 465 or 472  Capstone/Workshop  2

SPRING SEMESTER

THEATRE 304, 318, 323, 324, 325, 330, 357, or 457  BA Required Choice Elective  3

BA Theatre Education Licensure Program

The Theatre Education Program of study, within the BA Theatre degree program, is a 120-credit degree that prepares future urban theatre teachers for grades PK4-12.

BA THEATRE EDUCATION TRACK REQUIREMENTS Total to Graduate  120 cr.

University Core Curriculum  45
Theatre Department Core  32
Theatre Education Track Requirements and Electives  43
Total to Graduate  120

Admission and Continuation Requirements. All students admitted to UWM professional education programs (including the Theatre Education track) must take the Pre-Professional Skills Test (PPST) required by the Department of Public Instruction of the State of Wisconsin. Students must pass the PPST before acceptance to the licensure program in Theatre. All students must also take and pass the PRAXIS II Theatre Content Test prior to being approved for student teaching. Post-baccalaureate students must pass the PPST and PRAXIS II Theatre Content Test before acceptance to the licensure program in theatre (as per Wisconsin Department of Public Instruction regulations).
Students must have at least a 2.75 cumulative grade point average (within general university courses) and a 3.0 within the major to be admitted to the Theatre Education Program.

Students must have successfully completed the Communication and Foreign Language Competencies (see below) and English/Math proficiency and have at least 58 credits (completed or in progress) before being accepted as a major into the Theatre Education Program. For purposes of advisement, prior to meeting this requirement students are identified as "Theatre Education Intended."

After meeting the above requirements, students submit an official application form and are interviewed by the Director of the Theatre Education Program. The results of this application are then sent to the Peck School of the Arts Student Services Office and students are informed whether they have been accepted into the program.

The application interview includes a discussion of the student’s professional goals and a review of the student’s past theatre work. In the review, students may include materials such as:

1. A discussion of the student’s professional goals.
2. A review of the student’s past theatre work. Students may include materials such as:
   - Resume;
   - Transcript;
   - Rehearsal/production diaries;
   - Documentation of directing/performance experience showing representative roles or productions;
   - Practicum/design/production work (photos/renderings/working drawings/samples) in design of costumes, scenery, sound, and lighting, etc.; or
   - Work with learners in urban environments.

Students who are not accepted into the licensure program at the time of their interview may reapply in the following semester.

**Communications Requirement.** Students interested in pursuing a professional education teaching credential must also take a communications course. At UWM students may choose either: COMMUN 101 or 103 (COMMUN 101 is a GER Social Science course; COMMUN 103 is a GER Humanities course).

**Human Relations Requirement.** The Human Relations Requirement provides prospective teachers with awareness and understanding of intercultural relations within the educational setting. The requirement is met with coursework and classroom experience.

Effective July 1, 1992, and pursuant to 1987 Wisconsin Act 31, a license to teach may not be granted unless “the applicant has received instruction in the study of minority group relations, including instruction in the history, culture, and tribal sovereignty of American Indian tribes and bands located in this state.” Currently, this requirement is met through satisfactory completion and a passing grade in one of the following courses: ETHNIC 203, HIST 263, ANTHRO 213, or ENGLISH 276 (with the special topic "Literature, History, & Sovereignty of Upper Midwest Indians"), or Wisconsin ACT 31 seminar attendance. Questions regarding this requirement should be directed to the student's academic advisor.

**Fieldwork and Student Teaching.** A passing score on the PRAXIS II Theatre Content Test, a clear criminal background check, and a negative TB test, along with an application of intent are required prior to working in public schools and student teaching.

**Teaching Portfolio.** The Theatre Education course of study requires that students compile a teaching portfolio that demonstrates teaching proficiency in their area of expertise. Changes in State and Federal Laws may require that students also submit this portfolio along with other artifacts to an external assessment company or organization for further review and/or approval.

Students are responsible for developing a professional portfolio that is developmental in nature, contains evidence of
teaching ability, and is evaluated at the beginning, middle, and end of their program. The portfolio should also be available in an online format and will be compiled as a part of their major theatre education methods and field experience requirements. Evidence of teaching proficiency must include:

1. Record of PPST passing scores;
2. Transcript demonstrating 2.75 GPA;
3. Copy of current resume;
4. Lesson plans written and taught in early field experiences and student teaching;
5. Examples of student and pupil work in video and/or photo formats;
6. Statement of teaching and learning philosophy;
7. Draft of a Professional Development Plan;
8. Written evaluations and observations from cooperating teachers, university supervising teachers, and methods class instructors;
9. Self-evaluations and/or teaching journal based upon early field experience teaching and student teaching experiences; and
10. Evidence of proficiency (or better) in all ten InTASC, UWM, DPI, and AATE teaching standards.

Application for WI #325 Theatre Teacher License: In keeping with DPI requirements, UWM Theatre students must have a 2.75 cumulative grade point average within the general university and 3.0 in the major to be approved to apply for a teaching license after graduation.

Following admission to the Theatre Education Program and successful completion of the specified Theatre Education course of studies, a student seeking recommendation for teacher licensure must successfully fulfill the following requirements:

1. Fulfill all degree requirements;
2. Fulfill the Field Experience Requirement;
3. Demonstrate at least a 2.75 cumulative GPA.
4. Pass all sections of the Pre-Professional Skills Test (PPST);
5. Pass the Praxis II Theatre Content Exam;
6. Successfully complete student teaching;
7. Demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of theatre education through the use of an electronic teaching portfolio (see explanation below); and
8. Pass any teacher evaluations/tests required by the State of Wisconsin.

Course Distribution: The course distribution for the Theatre Education Program is as follows:

**BA THEATRE EDUCATION TRACK REQUIREMENTS**

<table>
<thead>
<tr>
<th>COURSE CATEGORY</th>
<th>TOTAL CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>University Core Curriculum</td>
<td>45</td>
</tr>
<tr>
<td>Theatre Department Core</td>
<td>32</td>
</tr>
<tr>
<td>Theatre Education Track Requirements and Electives</td>
<td>43</td>
</tr>
<tr>
<td><strong>Total to Graduate</strong></td>
<td><strong>120</strong></td>
</tr>
</tbody>
</table>

**UNIVERSITY CORE CURRICULUM**

<table>
<thead>
<tr>
<th>COMPETENCY</th>
<th>CREDITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral and Written Communication (OWC) Competency Part A &amp; Part B</td>
<td>6</td>
</tr>
<tr>
<td>Quantitative Literacy (QL) Competency Part A &amp; Part B</td>
<td>6</td>
</tr>
<tr>
<td>Foreign Language</td>
<td>6</td>
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</tbody>
</table>

**General Education Requirement: Credits Outside the Peck School of the Arts**

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>CREDITS</th>
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</thead>
<tbody>
<tr>
<td>Humanities</td>
<td>6</td>
</tr>
<tr>
<td>Natural Sciences (must include one lab)</td>
<td>6</td>
</tr>
<tr>
<td>Social Sciences</td>
<td>6</td>
</tr>
</tbody>
</table>
Communications 101 or 103 (University General Elective & Required by DPI)  
3

Required School of Education Courses

ED PSY 330 Human Learning and Development  
3

One of the following:
CURRENS 545 Reading in the Content Areas  
3

OR

CURRENS 343 Teaching Reading  
3

One of the following:
EXC EDUC 300 The Exceptional Individual  
3

OR

EXC EDUC 531 Inclusion for Secondary Educators  
3

OR

EXC EDUC 605 Child, Learner, Disabilities  
3

Credits in Peck School of the Arts (outside of Theatre) (3 credits in at least 3 different areas)  
12

University Credits (outside of Theatre)  
3

THEATRE DEPARTMENT CORE (All Programs)  
32 cr.

One of the following:
THEATRE 110 Acting  
3

OR

THEATRE 101 Acting for Non-majors  
3

OR

THEATRE 204 Participatory Theatre  
3

OR

THEATRE 260 Storytelling: (Subtitle)  
3

THEATRE 230 Acting 2  
3

THEATRE 213 Play Analysis  
3

THEATRE 214 Stagecraft (with lab)  
4

THEATRE 225 Costume Construction (with lab)  
4

THEATRE 236 Theatre Production and Design  
3

THEATRE 275 Performing Arts Management  
3

THEATRE 305 The Theatrical Experience  
3

THEATRE 321 The Theatre â€“ Beginning through Realism  
3

THEATRE 322 The Theatre â€“ Modern and Contemporary Period  
3

THEATRE EDUCATION REQUIREMENTS  
39 cr.

Required Courses

THEATRE 204 Participatory Theatre (if not taken previously)  
3

THEATRE 260 Storytelling: (Subtitle) (if not taken previously)  
3

THEATRE 320 Performing Community  
3

THEATRE 410 Stage Directing  
3

One of the following:
THEATRE 218 Drafting and Design Communication  
3

OR

THEATRE 359 Playwriting  
3

Two of the following:
CURRENS 665 Dramatizing Children’s Literature  
3

OR

THEATRE 473 Theatre in Elementary Education  
3

OR

THEATRE 448 The Creative Classroom: Drama and Arts Learning K-8  
3

THEATRE 474 Theatre in Secondary Education  
3
THEATRE 484 Fieldwork in Teaching 3
THEATRE 485 Elementary Student Teaching in Theatre 6
THEATRE 486 Secondary Student Teaching in Theatre 6

Select from the following electives: 4 cr.

THEATRE 111 Theatre Games 3
THEATRE 202 Theatre Practicum 3
THEATRE 224 Theatrical Makeup 3
THEATRE 231 Voice and Speech 3
THEATRE 304 Costume Design 3
THEATRE 311 Advanced Theatre Games 3
THEATRE 318 Lighting Design 3
THEATRE 323 Special Topics in Theatre History: (Subtitle) 3
THEATRE 324 Theatre in the Americas 3
THEATRE 325 Costume History 3
THEATRE 330 Acting Topics 3
THEATRE 339 Stage Combat 3
THEATRE 357 Digital Audio Workstation 3
THEATRE 418 Lighting Design 3
THEATRE 432 Advanced Practicum 2
THEATRE 437 Sound Design and Technology 3
THEATRE 465 Theatre Capstone: (Subtitle) 2-4
THEATRE 472 Performance Workshop Capstone 2-4

Theatre Education: Example of Required Courses in 4-Year Plan 120 Credits

Year 1  30 cr.

FALL SEMESTER

University Core General Education Requirements 9
THEATRE 110 Acting 1 3
THEATRE 213 Play Analysis 3

SPRING SEMESTER

University Core General Education Requirements 9
THEATRE 260 Storytelling 3
COMMUN 101/103 Required Course for Licensure 3

Year 2  32 cr.

FALL SEMESTER

University Core Required Elective 3
THEATRE 225 Costume Construction 4
THEATRE 236 Production and Design 3
THEATRE 204 Participatory Theatre 3
PSOA Core Required Elective 3

SPRING SEMESTER

PSOA Core Required Elective 3
THEATRE 230 Acting 2 3
THEATRE 214 Stagecraft 4
THEATRE 275 Performing Arts Management 3
THEATRE 218 or Design Communication or Playwriting 3

Year 3  32 cr.

FALL SEMESTER
PSOA Core | Required Elective | 3
EXC EDUC | Exceptional Education Course | 3
300/531/605 |  
THEATRE 321 | Theatre History 1 | 3
THEATRE 473 | Methods 1 | 3
ED PSY 330 | Human Development | 3
BA Elective | Elective | 2
**SPRING SEMESTER**
THEATRE 320 | Performing Community | 3
THEATRE 322 | Theatre History 2 | 3
THEATRE 474 | Methods 2 | 3
PSOA Core | Required Elective | 3
THEATRE 305 | Milwaukee Theatrical Experience | 3
**Year 4** | **26 cr.**
**FALL SEMESTER**
THEATRE 448 | Creative Classroom | 3
THEATRE 484 | Fieldwork | 3
THEATRE 410 | Directing | 3
CURRINS 545 or 343 | Teaching Reading | 3
BA Elective | Elective | 2
**SPRING SEMESTER**
THEATRE 485 | Student Teaching: Elem | 6
THEATRE 486 | Student Teaching: HS | 6

**Theatre Minor**

Students may earn a Theatre Minor, or a Theatre Education Minor leading to a teacher licensure (#325).

**Theatre Minor.** The Theatre Minor study supports active learning through participation in creative, communicative, and innovative processes. It is extremely relevant to other areas of academic study across the university. The Theatre Minor addresses the Essential Learning Outcomes by focusing on creativity and communication skills within the dramatic and theatrical arts.

**REQUIRED COURSES FOR THEATRE MINOR** | **19 cr.**
Choose one of the following:
THEATRE 110 | Acting 1 | 3
OR
THEATRE 101 | Acting for Non-majors | 3
OR
THEATRE 204 | Participatory Theatre | 3
OR
THEATRE 260 | Storytelling: (Subtitle) | 3
THEATRE 213 | Play Analysis | 3
One of the following:
THEATRE 214 | Stagecraft (with lab) | 4
OR
THEATRE 225 | Costume Construction | 4
One of the following:
THEATRE 236 | Theatre Production Design | 3
OR
THEATRE 275 | Performing Arts Management | 3
Theatre Education Minor. The Theatre Department offers a teaching minor leading to a DPI #325 license. This program is open either as an “add-on” license for students pursuing, and accepted into, an education or teaching major in an appropriately related field (e.g., English, Social Studies, MCEA) or teachers who already have a State of Wisconsin teaching license in one of the subjects listed above.

Admission requirements for a Theatre Education minor are the same as those of a major (see Theatre Education admission requirements): Students accepted into the program will be expected to participate in an interview, pass the Praxis I and II Tests prior to admission to the program, their fieldwork, and student teaching (THEATRE 484, 485, and THEATRE 486). Additionally, students evaluated as lacking in theatre content information, skills, or knowledge will be required to take more than the minimum 18 credits listed here; each individual student’s appropriateness, requirements, and their course(s) of study will be determined by the Theatre Education Program Director.

MINIMUM REQUIRED COURSES FOR THEATRE EDUCATION MINOR 45 cr.

Required Theatre Content Courses 21 cr.

THEATRE 110 Acting 1 3
One of the following:
THEATRE 204 Participatory Theatre 3
OR
THEATRE 260 Storytelling: (Subtitle) 3
THEATRE 213 Play Analysis 3
THEATRE 236 Theatre Production and Design 3
THEATRE 305 Milwaukee Theatrical Experience 3
THEATRE 321 The Theatre â€“ Beginning through Realism 3
THEATRE 322 The Theatre â€“ Modern and Contemporary Period 3

Required Methods and Practice Courses 24 cr.

THEATRE 410 Stage Directing 3
One of the following:
THEATRE 448 The Creative Classroom 3
OR
THEATRE 473 Elementary Methods 3
THEATRE 474 Secondary Methods 3
THEATRE 484 Fieldwork 3
THEATRE 485 Student Teaching: Elementary 6
THEATRE 486 Student Teaching: Secondary 6

Courses

Web Home Pages:
[ Peck School of the Arts ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Theatre
BioMedical Sciences

- Web Home Pages:
  - College of Health Sciences
  - BioMedical Sciences
- Admission and Course of Study
- Courses: BioMedical Sciences

Certificate Programs

- Certificate Program in Forensic Sciences
- Certificate Program in Health Care Informatics
- Certificate Program in Nutrition
- Certificate Program in Molecular Diagnostics
- Certificate in Complementary and Alternative Medicine

BioMedical scientists can apply a strong educational background in basic and medical sciences to a variety of career options.

**Medical Technology.** Medical technologists are trained in the theoretical and practical aspects of laboratory medicine, which are critical to the detection, diagnosis, and treatment of diseases. Medical technology offers a wide variety of career options, including hospitals, clinics, independent laboratories, public health facilities, business, industry, research, sales, and marketing. Students also may use this major to prepare for medical or graduate school. Students successfully completing this program are eligible to sit for a national certification exam offered by the American Society for Clinical Pathology (ASCP-BOC). The UWM Medical Technology Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), [www.naalcs.org](http://www.naalcs.org), located at 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119.

**Cytotechnology.** Cytotechnologists examine human cells under the microscope, looking for early signs of cancer or other diseases. When abnormal cells are detected, the cytotechnologist works with a pathologist to arrive at a final diagnosis. The Cytotechnology program is accredited by the Commission on Accreditation of Allied Health Programs (CAAHEP), [www.caahep.org](http://www.caahep.org), located at 1361 Park St., Clearwater, FL 33756. Students successfully completing this program are eligible to sit for a national certification exam.

**Biomedical Science.** This submajor provides excellent preparation for medical, physician assistant, dental, or veterinary school, biomedical research, forensic science, or employment with pharmaceutical or biotechnology companies.

**Radiologic Technology.** Radiologic technologists, or radiographers, may use X-rays or administer contrast media to produce images of the human skeleton and chest or digestive tract and urinary system. The radiographer works closely with the radiologist or physician. Students complete the first two years on campus before applying to progress through
the clinical or professional training. Once accepted into a professional curriculum option, students will take didactic and clinical education courses. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national registration exam offered through the American Registry of Radiologic Technologists (www.arrt.org). The Radiologic Technology clinical training programs are accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), www.jrcert.org, located at 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606.

**Diagnostic Medical Sonography.** By using high-frequency sound waves or ultrasound, sonographers produce images of soft tissue and blood flow to assist with the diagnostic process or administration of therapeutic application. Sonography is used to examine the abdomen, breast tissue, female reproductive system, urinary system, heart, and blood vessels. In addition, sound waves are used to guide fine-needle biopsy. Diagnostic Medical Sonography students complete the first two years of coursework on campus before applying to progress through the professional training. Once accepted into a professional curriculum option, students will take didactic and clinical education courses. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national board exams offered through the American Registry of Diagnostic Medical Sonography (www.ardms.org). The Diagnostic Medical Sonography clinical training programs are accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), 1361 Park Street, Clearwater, FL 33756.

**Public Health Microbiology.** Public health microbiology prepares students for a career in the laboratory disciplines of public health. Specifically, students will be educated in a broad range of sciences in order to perform investigatory and laboratory-based analyses of environmental samples for microbial contaminants of interest. Emphasis is placed on pathogenic disease and the human populations that they affect. Students successfully completing this program may sit for national certification exams.

**ADMISSION AND COURSE OF STUDY**

Students in the BioMedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose one of the following seven areas or submajors: Medical Technology, BioMedical Science, Cytotechnology, Radiologic Technology, Diagnostic Medical Sonography, Diagnostic Medical Imaging Completion, or Public Health Microbiology. All BMS students will be required to comply with a background check and maintain health insurance during the professional training experience.

**Medical Technology, BioMedical Science, Cytotechnology, or Public Health Microbiology.** For students pursuing Medical Technology, BioMedical Science, or Cytotechnology, the junior year consists primarily of pre-clinical courses, and the senior year is a 12-month professional training experience. Students in the Public Health Microbiology submajor complete an eight-week internship with the City of Milwaukee Health Department. The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4a. Completion of all required courses and electives (86 credits) through the second semester of junior year for students pursuing Medical Technology, Cytotechnology, or BioMedical Sciences;
4b. Completion of all required courses and electives (113 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.
To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses. Medical technology and cytotechnology students must be prepared for full-time study (40 hours per week) that could also require additional study time at night and on weekends.

**Radiologic Technology.** Students pursuing Radiologic Technology complete the freshman and sophomore years on campus. Students accepted into the professional curriculum component complete the junior and senior years at either an external clinical site off campus or the internal clinical affiliates through UWM. The professional training includes didactic and clinical coursework. Aurora St. Luke’s in Milwaukee, Froedtert Hospital in Milwaukee, UW Hospital & Clinics in Madison, WI, Weathor Franciscan All Saints in Racine, and Wheaton Franciscan St. Joseph in Milwaukee serve as the external clinical education sites. The internal clinical affiliates through UWM include clinical sites in the Milwaukee area. Students are responsible for any relocation and all living expenses during clinical education. Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER);
2. Completion of all required courses and electives (60 credits) in the freshman and sophomore semesters with a cumulative GPA of 2.5;
3. Successful completion of the professional curriculum application process to include an on-site interview with the external clinical affiliate programs and/or the UWM-sponsored internal clinical program;
4. Successful completion of a background check, health physical, drug screen, and maintenance of health insurance for the duration of the professional curriculum;
5. Students are required to earn a grade of C or better in PHYSICS 110, CHEM 101, BIOSCI 202, BIOSCI 203, BMS 301, BMS 301, BMS 303, BMS 304, and BMS 305;
6. Complete job-shadowing in an imaging department with a Radiologic Technology professional prior to applying to the professional training; and
7. Completion of a CNA (Certified Nursing Assistant) Course is highly recommended, but not required. View a list of WI nurse aid training programs at [www.dhs.wisconsin.gov/caregiver](http://www.dhs.wisconsin.gov/caregiver).

Additional information is available from the Office of Student Affairs (414) 229-2758.

Admission into the professional curriculum is competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional curriculum, students must adhere to all program policies and procedures.

**Curriculum for the BioMedical Sciences Major**
(Radiology Technology - 130 cr.)

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<thead>
<tr>
<th>Freshman Year – Semester I</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>CHEM 101   Chemical Science</td>
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<td>BIO SCI 202  Anatomy and Physiology I</td>
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<tr>
<td>BMS 205   Introduction to Diagnostic Medicine</td>
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<th>Freshman Year – Semester II</th>
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<td>CHEM 103   Survey of Biochemistry</td>
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<td>BIO SCI 203  Anatomy and Physiology II</td>
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</tr>
<tr>
<td>HS (HCA) 222  Language of Medicine</td>
<td>3</td>
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<tr>
<td>HS (HCA) 224  Introduction to Microcomputers for Allied Health Professions2</td>
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<tr>
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<td>HS (HCA) 102  Health Care Delivery in the United States</td>
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<td>HS (HCA) 251  Health Care Documentation</td>
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<tr>
<td>BMS 301, 302, 303  Human Pathophysiology</td>
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GER Electives (Arts)  
Total  16  

**Sophomore Year – Semester II**  
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<td>KIN 270</td>
<td>Statistics in Health</td>
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<td>BMS 304, 305</td>
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Courses taken during the Professional Curriculum are listed by site at www4.uwm.edu/chs/academics/biomedical_sciences/bms_undergrad/radtech_undergrad/curriculum.cfm

**Diagnostic Medical Sonography.** Students pursuing Diagnostic Medical Sonography complete the freshman and sophomore years on campus. Students accepted into the professional curriculum component complete the junior and senior years at either an external clinical site off campus or the internal clinical affiliates through UWM. The professional training includes didactic and clinical coursework. Aurora St. Luke’s in Milwaukee, and UW Hospital & Clinics in Madison, serve as the external clinical education sites. The internal clinical affiliates through UWM include clinical sites in the Milwaukee area for general and Chicago for echocardiography. Students are responsible for any relocation and all living expenses during clinical training. Entry into the professional curriculum is highly competitive and dependent upon:

1. Completion of UWM’s General Education Requirements (GER);
2. Completion of all required courses and electives (60 credits) in the freshman and sophomore semesters with a cumulative GPA of 3.0;
3. Successful completion of the professional curriculum application process to include an on-site interview with the external clinical affiliate programs and/or the UWM-sponsored internal clinical program;
4. Successful completion of a background check, health physical, drug screen, and maintenance of health insurance for the duration of the professional curriculum;
5. Students are required to earn a grade of C or better in PHYSICS 110, CHEM 101, BIOSCI 202, BIOSCI 203, BMS 301, BMS 303, BMS 304, and BMS 305;
6. Complete job-shadowing in an imaging department with a Diagnostic Medical Sonography professional prior to applying to the professional training; successfully complete a course in CPR; and
7. Completion of a CNA (Certified Nursing Assistant) Course is required for the clinical application and placement. View a list of WI nurse aid training programs at www.dhs.wisconsin.gov/caregiver/.

NOTE: 100 hours of patient care beyond the CNA course are required for placement at Aurora-St. Luke’s School of Diagnostic Medical Sonography. Documentation verifying the 100 hours and evaluation of job performance will be required. Completing the CNA course and hours by the professional training application deadline of November 1 is recommended.

Additional information is available from the Office of Student Affairs (414) 229-2758.

Admission into the professional curriculum is competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional curriculum, students must adhere to all program policies and procedures.

**Curriculum for the BioMedical Sciences Major**  
**(Diagnostic Medical Sonography - General Option, 130 cr.)**

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<tr>
<td>CHEM 102</td>
<td>Chemical Science</td>
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<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
</tr>
<tr>
<td>BMS 101</td>
<td>Introduction to Clinical Laboratory Sciences*</td>
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<tr>
<td>BMS 205</td>
<td>Introduction to Diagnostic Medicine*</td>
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<tr>
<td>GER Electives (Arts)</td>
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<td></td>
<td>*BMS 101 and 205 highly recommended, but not required.</td>
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**Freshman Year – Semester II**

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<tr>
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<td>HS (HCA 224)</td>
<td>Introduction to Microcomputers for Allied Health Professions2</td>
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**Sophomore Year – Semester I**

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<td>PHYSICS 110</td>
<td>Physics for the Health Professions</td>
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<td>HS (HCA 250)</td>
<td>Allied Health Information Methods</td>
<td>2</td>
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<tr>
<td>BMS 301, 302, 303</td>
<td>Human Pathophysiology</td>
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**Sophomore Year – Semester II**

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<td>BMS 245 (SS/CD)</td>
<td>Client Diversity in Health Care</td>
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<td>KIN 270</td>
<td>Statistics in Health</td>
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<td>BMS 304, 305</td>
<td>Human Pathophysiology</td>
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<td>PHILOS 244 (HU)</td>
<td>Ethical Issues in Health Care</td>
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<td>COMMUN 103 (HU)</td>
<td>Public Speaking</td>
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Courses taken during the Professional Curriculum are listed by site at [www4.uwm.edu/chs/academics/biomedical_sciences/bms_undergrad/dms_undergrad/curriculum.cfm](http://www4.uwm.edu/chs/academics/biomedical_sciences/bms_undergrad/dms_undergrad/curriculum.cfm)

Curriculum for the BioMedical Sciences Major

(Medical Technology, Cytotechnology, BioMedical Sciences - 130 cr.)

**Freshman Year – Semester I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CHEM 102</td>
<td>Chemical Science</td>
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<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
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<tr>
<td>BMS 101</td>
<td>Introduction to Clinical Laboratory Sciences*</td>
<td>2</td>
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<td>BMS 205</td>
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**Freshman Year – Semester II**

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<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis I</td>
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**Sophomore Year – Semester I**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
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<td>BMS 301, 302, 303</td>
<td>Human Pathophysiology</td>
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<tr>
<td>CHEM 341</td>
<td>Introductory Survey of Organic Chemistry I</td>
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<td>Introductory Organic Chemistry Laboratory I</td>
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**Sophomore Year – Semester II**

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<td>BMS 304, 305</td>
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**Junior Year – Semester I**

| BIO SCI 383* | General Microbiology | 4 |
| CHEM 501* | Introduction to Biochemistry | 3 |
| BMS 427* | Clinical Immunology | 3 |
| BMS 428* | Clinical Immunology Laboratory | 1 |
| GER Electives (Humanities) | | 3 |
| Total | | 14 |

* In fall of junior year, minimum grad of C is required in BIO SCI 383, CHEM 501, and BMS 427 and 428.

* In fall of junior year, students apply to BMS professional study. Minimum 2.500 UWM cumulative GPA is required for the major.

**Junior Year – Semester II**

| BMS 420 | Introduction to Hematology | 3 |
| BMS 421 | Introduction to Hematology Laboratory | 1 |
| BMS 431 | Clinical Chemistry | 3 |
| BMS 432 | Clinical Chemistry Laboratory | 1 |
| BMS 534 | Medical Microbiology | 2 |
| BMS 535 | Medical Microbiology Laboratory | 2 |
| BMS 560 | Molecular and Genetic Diagnostics | 2 |
| BMS 561 | Molecular Diagnostics Lab | 1 |
| Total | | 15 |

**Senior Year – Summer Session**

| BMS 521 | Applied Clinical Hematology | 3 |
| BMS 522 | Hemostasis | 1 |
| BMS 536 | Applied Clinical Microbiology | 3 |
| BMS 537 | Medical Parasitology and Mycology | 2 |
| BMS 541 | Urinalysis | 1 |
| BMS 542 | Applied Clinical Chemistry | 3 |
| Total | | 13 |

**Medical Technology Submajor**

**Senior Year – Semester I**

| BMS 523 | Lectures in Advanced Clinical Hematology | 1 |
| BMS 529 | Introduction to Immunohematology | 3 |
| BMS 530 | Immunohematology and Blood Banking Lab | 1 |
| BMS 547 | Clinical Laboratory Diagnosis | 5 |
| BMS 548 | Clinical Laboratory Practicum | 5 |
| BMS 555 | Toxicology and Therapeutic Drug Monitoring | 1 |
| Total | | 16 |

**Senior Year – Semester II**

| BMS 524 | Advanced Clinical Hematology Practicum | 3 |
| BMS 531 | Advanced Lectures in the Clinical Laboratory Sciences | 1 |
| BMS 532 | Advanced Clinical Immunohematology and Immunology | 3 |
| BMS 538 | Advanced Clinical Microbiology Practicum | 3 |
| BMS 544 | Advanced Clinical Chemistry Practicum | 3 |
| BMS 549 | Professional Development in Clinical Laboratory Sciences | 3 |
| Total | | 16 |

**Biomedical Sciences Submajor**
### Senior Year – Semester I

<table>
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<td>BMS 523</td>
<td>Lectures in Advanced Clinical Hematology</td>
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<td>BMS 547</td>
<td>Clinical Laboratory Diagnosis</td>
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<td>BMS 555</td>
<td>Toxicology and Therapeutic Drug Monitoring</td>
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<td>BMS 599</td>
<td>Advanced Independent Study</td>
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### Senior Year – Semester II

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<td>Advanced Lectures in the Clinical Laboratory Sciences</td>
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<td>BMS 549</td>
<td>Professional Development in Clinical Laboratory Sciences</td>
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<td>BMS 599</td>
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### Cytotechnology Submajor

#### Senior Year – Semester I

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<td>Introduction to Cytotechnology</td>
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<tr>
<td>BMS 575</td>
<td>Cytology of the Female Genital Tract Lecture</td>
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<td>BMS 576</td>
<td>Cytology of the Female Genital Tract Lab</td>
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<td>Cytology of the Respiratory Tract</td>
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#### Senior Year – Semester II

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<tr>
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<td>Cytology of the Gastrointestinal and the Genito-Urinary Tract</td>
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<td>BMS 579</td>
<td>Cytology of Effusions and the Central Nervous System</td>
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<td>BMS 580</td>
<td>Aspirations and Miscellaneous Cytology</td>
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<td>BMS 581</td>
<td>Special Procedures in Cytology</td>
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<td>BMS 582</td>
<td>Cytology of the Breast</td>
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<td>BMS 586</td>
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#### Senior Year – Summer Session

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<td>BMS 587</td>
<td>Research Methods in Cytology</td>
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<td>BMS 588</td>
<td>Diagnostic Microscopy in Cytology</td>
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1 Minimum 2.500 GPA required in sciences.
2 Or equivalent computer course or competency exam.
* General Education Requirements must be satisfied using elective credits.

### Curriculum for the BioMedical Sciences Major

**Public Health Microbiology - 128 cr.**

#### Freshman Year – Semester I

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>Chemical Science*</td>
<td>5</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I*</td>
<td>4</td>
</tr>
<tr>
<td>HS (HCA) 101</td>
<td>Introduction to Health and Disease</td>
<td>2</td>
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<tr>
<td>HS (HCA) 222</td>
<td>Language of Medicine</td>
<td>3</td>
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#### Freshman Year – Semester II

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis*</td>
<td>5</td>
</tr>
<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology I*</td>
<td>4</td>
</tr>
<tr>
<td>HS (HCA 224)</td>
<td>Introduction to Microcomputers for Allied Health Professions</td>
<td>3</td>
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<tr>
<td>Year</td>
<td>Semester</td>
<td>Course Code</td>
</tr>
<tr>
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<tr>
<td>Sophomore Year – Semester I</td>
<td></td>
<td>BIO SCI 325</td>
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<td>BMS 301, 302, 303</td>
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<td></td>
<td></td>
<td>CHEM 341</td>
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<td></td>
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<td>CHEM 342</td>
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<td></td>
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<td>BMS 205</td>
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<tr>
<td>Sophomore Year – Semester II</td>
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<td>CHEM 221</td>
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<td>KIN 270</td>
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<td></td>
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<td>BMS 304, 305</td>
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<td>BMS 245</td>
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<tr>
<td>Junior Year – Semester I</td>
<td></td>
<td>BIO SCI 383</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHEM 501</td>
</tr>
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<td>BMS 427</td>
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<td>HCA 212</td>
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<td></td>
<td><strong>Total</strong></td>
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<td></td>
<td></td>
<td>* In fall of junior year, minimum grad of C is required in BIO SCI 383, CHEM 501, and BMS 427 and 428.</td>
</tr>
<tr>
<td></td>
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<td>* In fall of junior year, students apply to BMS professional study. Minimum 2.500 UWM cumulative GPA is required for the major.</td>
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<tr>
<td>Junior Year – Semester II</td>
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<td>BMS 534</td>
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<td>Senior Year – Summer Session</td>
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<td>BIO SCI 405</td>
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<td>Senior Year – Semester II</td>
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<td>BMS 531</td>
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Curriculum for the BioMedical Sciences Major (Diagnostic Medical Sonography, Echocardiography - 130 cr.)

**Freshman Year – Semester I**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>CHEM 102</td>
<td>Chemical Science*</td>
<td>5</td>
</tr>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I*</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 205</td>
<td>Introduction to Diagnostic Medicine</td>
<td>3</td>
</tr>
<tr>
<td>GER Electives (Social Science)</td>
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**Freshman Year – Semester II**

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<td>CHEM 104</td>
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<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology I*</td>
<td>4</td>
</tr>
<tr>
<td>HS (HCA) 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HS (HCA) 224</td>
<td>Introduction to Microcomputers for Allied Health Professions</td>
<td>3</td>
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**Sophomore Year – Semester I**

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<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>3</td>
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<tr>
<td>PHYSICS 110</td>
<td>Physics for the Health Professions*</td>
<td>3-4</td>
</tr>
<tr>
<td>HS (HCA) 250</td>
<td>Allied Health Information Methods</td>
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<tr>
<td>HS (HCA) 251</td>
<td>Health Care Documentation</td>
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<tr>
<td>BMS 301, 302, 303</td>
<td>Human Pathophysiology*</td>
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<td>GER Electives (Arts)</td>
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**Sophomore Year – Semester II**

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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>NURS 101 (SS/CD)</td>
<td>Cultural Diversity in Health Care</td>
<td>3</td>
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<tr>
<td>KIN 270</td>
<td>Statistics in Health</td>
<td>3</td>
</tr>
<tr>
<td>BMS 304, 305</td>
<td>Human Pathophysiology*</td>
<td>2</td>
</tr>
<tr>
<td>PHILOS 244 (HU)</td>
<td>Ethical Issues in Health Care</td>
<td>3</td>
</tr>
<tr>
<td>COMMUN 103 (HU)</td>
<td>Public Speaking</td>
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<td><strong>Total</strong></td>
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**Junior Year – Semester I**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>BMS 310</td>
<td>Introduction to Sonography</td>
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<tr>
<td>BMS 454</td>
<td>Introduction to Fetal Echocardiography</td>
<td>3</td>
</tr>
<tr>
<td>BMS 336</td>
<td>Cardiovascular Principles I</td>
<td>3</td>
</tr>
<tr>
<td>BMS 337</td>
<td>Clinical Education I – Echocardiography</td>
<td>3</td>
</tr>
<tr>
<td>BMS 450</td>
<td>Vascular Sonography I</td>
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**Junior Year – Semester II**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>BMS 323</td>
<td>Medical Ultrasound Principles and Apparatus</td>
<td>3</td>
</tr>
<tr>
<td>BMS 340</td>
<td>Embryology of the Cardiovascular System</td>
<td>3</td>
</tr>
<tr>
<td>BMS 341</td>
<td>Adult Echocardiography</td>
<td>3</td>
</tr>
<tr>
<td>BMS 342</td>
<td>Clinical Education II – Echocardiography</td>
<td>3</td>
</tr>
<tr>
<td>BMS 451</td>
<td>Vascular Sonography II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

**Junior Year – Summer Session**

* Students must achieve a minimum cumulative GPA of 2.500 in these required science courses. Of the GER electives listed above, select from Arts, Humanities, or Social Science a course to satisfy GER-Cultural Diversity.
BMS 345 Pediatric Echocardiography I 2
BMS 346 Adult Echocardiography II 2
BMS 347 Clinical Education III – Echocardiography 3
Total 7

**Senior Year – Semester I**
BMS 345 Adult Echocardiography III 3
BMS 346 Pediatric Echocardiography 3
BMS 347 Stress Echocardiography 3
BMS 348 Clinical Education IV – Echocardiography 3
BMS 455 Vascular Sonography III 3
Total 15

**Senior Year – Semester II**
BMS 349 Clinical Education V – Echocardiography 3
Select 4 from the following five courses:
BMS 458 Seminar in Advanced Medical Imaging 3
BMS 459 Introduction to 3D/4D Imaging 3
BMS 460 Seminar in Professional Development 3
BMS 462 Seminar in Ultrasound Research 3
BMS 463 Seminar in Management and Education 3
Total 15

**Senior Year – Summer Session**
BMS 440 Clinical Education VI – Echocardiography 3
BMS 441 Transesophageal Echocardiography 2
Total 5

* Effective fall 2007 for new freshmen, the following grade policy will be implemented: Grades of C or higher are required in BIO SCI 202 and 203, CHEM 102, Physics 110, and HS 301, 302, 303, 304, and 305.

**Nutritional Sciences**

The Nutritional Sciences Program is a 123-credit interdisciplinary undergraduate major administered jointly by the Biomedical Sciences and Kinesiology Departments in the College of Health Sciences. The Nutritional Sciences program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health. For more information, see the Nutritional Sciences Program description in the Interdisciplinary Majors section of the College of Health Sciences programs in this catalog.

**Certificate Program in Forensic Sciences**

The BioMedical Sciences Program in the College of Health Sciences cooperates with the departments of Anthropology and Chemistry in the College of Letters & Science and the Criminal Justice Program in the Helen Bader School of Social Welfare to offer studies in forensic sciences. Certificates in Death Investigation, Forensic Sciences, and Forensic Toxicology are available. For more information, see the Forensic Sciences program description in the Inter-School/College section in this catalog.

**Certificate in Health Care Informatics**

Health care organizations employ a vast and complex array of information systems. To utilize and maintain these systems, health care organizations need knowledgeable and skilled employees. The Certificate in Health Care Informatics prepares students to understand, analyze, and evaluate information technology used to perform administrative and clinical tasks within a health care organization. This Certificate is of particular value to students in the health professions, information studies, or those seeking careers with hospitals, clinics, insurance and pharmaceutical firms, as well as vendors who design, develop, and install health care information systems.

Offered as a cooperative program between the Department of Health Sciences’ Health Care Administration and
Informatics Program and the School of Information Studies’ Information Resources Program, the Certificate provides a basic foundation in health care informatics. Coursework focuses on:

- An introduction to information technology theory and application, with a special emphasis on internet communication;
- The analysis and design of information systems in a health care environment;
- The design, creation, and management of health care database systems; and
- The legal aspects of information products and services.

With the Certificate in Health Care Informatics, undergraduate students may prepare for graduate study available through UWM’s MS Health Care Informatics and the PhD Medical Informatics programs. Students may choose to integrate the Certificate with their undergraduate major or pursue the Certificate post-baccalaureate.

Certificates are granted to students who successfully complete each of the following required courses with a minimum grade of C and whose cumulative GPA across all required courses is at least 2.500.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>HS 224</td>
<td>Introduction to Microcomputers for Allied Health</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIS 110</td>
<td>Introduction to Information Science</td>
<td>3</td>
</tr>
<tr>
<td>LIS 230</td>
<td>Organization of Knowledge</td>
<td>3</td>
</tr>
<tr>
<td>LIS 250</td>
<td>Internet Communication and Information Transfer</td>
<td>3</td>
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<tr>
<td>HCA 537</td>
<td>Introduction to Health Care Databases and Technologies</td>
<td>3</td>
</tr>
<tr>
<td>HCA 541</td>
<td>Health Care Information System Analysis and Design</td>
<td>3</td>
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<td>OR</td>
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<td></td>
</tr>
<tr>
<td>LIS 340</td>
<td>Information Architecture II</td>
<td>3</td>
</tr>
<tr>
<td>HCA 542</td>
<td>Health Care Database Design and Management</td>
<td>3</td>
</tr>
<tr>
<td>LIS 465</td>
<td>Legal Aspects of Information Products and Services</td>
<td>3</td>
</tr>
</tbody>
</table>

Forms for declaring an intention to complete the Certificate in Health Care Informatics must be completed in the College of Health Sciences Office of Student Affairs, NWQ Building B, 6th Floor, (414) 229-2758. Certificates are awarded upon completion of all requirements or at time of graduation for students seeking a bachelor’s degree.

This certificate program is subject to federal gainful employment regulations. For more information please visit [www.uwm.edu/financialaid/EligConsInfo/gainfulemployment.cfm](http://www.uwm.edu/financialaid/EligConsInfo/gainfulemployment.cfm).

**Certificate Program in Nutrition**

*(NOTE: Certificate Program is currently suspended. Please contact the CHS Office of Student Affairs at (414) 229-2758 for further information).*

The Certificate in Nutrition may be awarded to eligible students concurrently with their bachelor’s degree, to students who have previously received a bachelor’s degree at UWM or another accredited institution, and to all other students who are eligible for admission to UWM.

The Nutrition Certificate Program offers students and human services professionals in the community a complement to their primary academic discipline. The nutrition certificate program will provide focused education on human nutrition and its relationship to wellness and the disease process. The application of this knowledge is designed to promote a healthier population in our community. The specialized study of human nutrition enhances the education of human service providers such as allied health professionals, nurses, social workers, health educators, public and community health specialists, as well as persons in the general public who have an interest in wellness and disease prevention.
To receive the certificate, students must complete all of the following courses and obtain a cumulative grade point average of 2.5 in these specific courses. At least one half of the credits must be taken at UW-Milwaukee.

**Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
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<tr>
<td>BIO SCI 203</td>
<td>Anatomy and Physiology II</td>
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<tr>
<td>BMS 232</td>
<td>Introduction to Nutrition</td>
<td>3</td>
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<tr>
<td>OR</td>
<td>BMS 590</td>
<td>Fundamentals of Human Nutrition</td>
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<tr>
<td>KIN 230</td>
<td>Health Aspects of Exercise Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>KIN 241</td>
<td>Why We Eat What We Do</td>
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<tr>
<td>BMS 301</td>
<td>Human Pathophysiology: Fundamentals</td>
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<tr>
<td>BMS 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
<td>1</td>
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<tr>
<td>BMS 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
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<tr>
<td>BMS 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<tr>
<td>BMS 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
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<td>BMS 332</td>
<td>Clinical Nutrition</td>
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<td>BMS/KIN 590</td>
<td>Public Health Nutrition and Food Politics</td>
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</table>

Certificates are awarded upon completion of all requirements or at the time of graduation for students seeking a bachelor’s degree. Forms for declaring an intention to complete the Nutrition Certificate must be completed and are available in the Office of Student Affairs, NWQ Building B, 6th Floor, (414) 229-2758.

**Certificate Program in Molecular Diagnostics**

The certificate program in Molecular Diagnostics trains students in the newly emerging and rapidly evolving field of laboratory medicine. Students gain a solid foundation and the basic skills necessary for professional employment in Molecular Diagnostic programs in university and hospital laboratories, in new test R&D applications, or in the biotechnology industries serving the Molecular Diagnostics communities.

The certificate is designed to augment the basic education and skills of students currently pursuing a Bachelor of Science degree in BioMedical Sciences or Biological Sciences. With minimal additional courses, students will be able to complete a certificate in Molecular Diagnostics. Coursework will include lecture and laboratory courses that focus on application and preparation for a nationally recognized certification exam.

The certificate program will also be available to returning, non-degree students who wish additional credentials in Molecular Diagnostics for career development or enhancement.

*Complete the following courses:*

**Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BMS 539/540</td>
<td>Public Health Microbiology (Lecture and Lab)</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>BMS SCI 663</td>
<td>Laboratory Techniques in Molecular Biology w/Lab</td>
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<tr>
<td>BMS 560/561</td>
<td>Molecular Diagnostics (Lecture and Lab)</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td>BMS 706/561</td>
<td>Molecular Pathology (Lecture and Lab)</td>
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</table>

*Complete one of the following elective courses:*
Although flexibility is built into this certificate program, students will be expected to have basic knowledge of microbiology and genetics and at least one advanced laboratory course (500 level or above) to qualify for the Molecular Diagnostics Certificate.

Study of Complementary & Alternative Medicine.

(NOTE: Certificate Program is currently suspended. Please contact the CHS Office of Student Affairs at (414) 229-2758 for further information).

The focus of this certificate program is to provide an educational foundation regarding the broad use of complementary and alternative practices available to consumers. The purpose of this certificate program, based upon the best scientific research available, is to explore and evaluate the most common forms of complementary and alternative medicine. Through coursework, students will be provided: 1) an introduction to the various practices including historic and cultural foundations; 2) review of commonly incorporated practices and scientific research that have investigated the relationship between such practice and health; 3) critical investigation into several of the most popular complementary and alternative self-help therapies and practices including literature reviews to evaluate efficacy of practice; and 4) ethical issues underlying the endorsement and use of “complementary and alternative medicine.”

**COURSE REQUIREMENTS:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Alternative Medicine</td>
<td>3</td>
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<td>KIN 365</td>
<td>Mind-Body Integration and Interventions in Complementary</td>
<td>3</td>
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<tr>
<td></td>
<td>Medicine</td>
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</tr>
<tr>
<td>KIN 368</td>
<td>Intervention Strategies in Complementary and Alternative</td>
<td>3</td>
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<td></td>
<td>Medicine</td>
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<tr>
<td>KIN 400</td>
<td>Ethics and Values in the Health and Fitness Professions</td>
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</tbody>
</table>

In addition, students must complete 3 credits from a select list of courses available from their advisor in the Office of Student Affairs.

NOTE: This certificate is not designed to provide students with skills necessary to deliver various practices considered “Complementary and Alternative”. It is designed to provide future practitioners basic scientific knowledge and skills to critically evaluate the current and future use of complementary and alternative medicine.

For more information about this program, contact Tracy Oles-Fairchild, Undergraduate Program Coordinator, at teo@uwm.edu.

**Courses**

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**BioMedical Sciences**

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Web Home Pages:
The Department of Communication Sciences and Disorders offers a Bachelor of Science degree which provides the preprofessional foundation for graduate study. The student who plans to become a professional speech-language pathologist or audiologist will receive preparation in human communication sciences and disorders as well as a broad educational experience in the liberal arts and sciences.

A career as a speech-language pathologist requires a master’s degree. The Department offers a graduate program which is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association (ASHA) in Speech-Language Pathology. The Wisconsin Department of Public Instruction also has approved the undergraduate/graduate program in Communication Sciences and Disorders. A career as an audiologist requires a doctoral degree (AuD or Doctor of Audiology). In Wisconsin, an Au.D. consortial program is offered by UW-Madison and UW-Stevens Point.

**Admission to the Major.** To be accepted as a communication sciences and disorders major you must have:

1. A cumulative GPA of 2.5 or better in at least the first 58 credits taken;
2. A GPA of 2.75 or better in communication sciences and disorders courses 220, 230, and 240, earned the first time;
3. English and math competency;
4. Completion of an application form for admission to the major. Applications are available in the Office of Student Services, Merrill Hall 115; and
5. Endorsement by the faculty of the student’s written application. Students will receive written notice of the admission decision. A meeting with your advisor to discuss the program of study is required immediately following admission to the major.

**Appeal Procedures.** Students who are refused admission to the major may appeal the decision by writing to the department chairperson and enumerating the reasons they believe their case is exceptional and merits additional consideration. If possible, the appeal should be accompanied by written support from one or more of the faculty, and should include documentation of any extenuating circumstances cited in support of the appeal. A committee composed of the entire faculty of the Department of Communication Sciences and Disorders will consider individual student
appeals for admission to the major. Students are notified in writing of the faculty’s decision concerning the appeal.

**Academic Advising.** Advising for all undergraduate students is provided by the Office of Student Services, Merrill 115, and students are strongly encouraged to confer with that advisor at least once each semester. Students are also encouraged to meet with a Department of Communication Sciences and Disorders faculty member to discuss the requirements and challenges of a career as a speech-language pathologist or audiologist. Seniors should meet with their advisor to review their final year of study and discuss opportunities for graduate study.

**Degree Requirements.** Students must achieve the following:

1. Satisfactory completion of 120 credits;
2. Satisfactory completion of the required courses in the Department of Communication Sciences and Disorders, those required outside the department, and the specific courses and/or experiences required by either the School Track or Health Care Track;
3. Satisfactory completion of the University General Education Requirements;
4. A cumulative 2.5 GPA or better in all credits earned at UWM. Students should note that admission to graduate programs in speech-language pathology and audiology is highly competitive. To be competitive with other Graduate School applicants, it is recommended that students maintain a GPA greater than 3.5; and
5. Completion of the last 30 credits in residence at UWM.

**Required Courses for Both Health Care and School Tracks**

<table>
<thead>
<tr>
<th>Communication Sciences &amp; Disorders Courses</th>
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</tr>
</thead>
<tbody>
<tr>
<td>COMSDIS 210 Survey of Communication Disorders</td>
<td>3</td>
</tr>
<tr>
<td>COMSDIS 220 Anatomy and Physiology of Speech, Hearing, and Language Mechanisms</td>
<td>4</td>
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<tr>
<td>COMSDIS 230 Introduction to Phonetics</td>
<td>4</td>
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<tr>
<td>COMSDIS 240 Normal Speech and Language Development</td>
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<tr>
<td>COMSDIS 245 Client Diversity in Health Sciences</td>
<td>3</td>
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<tr>
<td>COMSDIS 350 Clinical Process I: Articulation and Phonology Disorders</td>
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<tr>
<td>COMSDIS 351 Clinical Process II: Child Language Disorders</td>
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<tr>
<td>COMSDIS 380 Bases of Hearing Science</td>
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<td>COMSDIS 450 Bases of Fluency and Voice Disorders</td>
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<tr>
<td>COMSDIS 460 Survey of Adult Neurogenic Language and Speech Disorders</td>
<td>3</td>
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<tr>
<td>COMSDIS 470 Introduction to Audiology</td>
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<tr>
<td>COMSDIS 480 Speech Science</td>
<td>3</td>
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<tr>
<td>COMSDIS 490 Aural Rehabilitation</td>
<td>3</td>
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<td>COMSDIS 520 Counseling in Communication Disorders</td>
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<tr>
<th>Extra-Departmental Courses</th>
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<tbody>
<tr>
<td>COMMUN 101 Introduction to Communication</td>
<td>3</td>
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<tr>
<td>ANTHRO 102 Introduction to Anthropology: Culture and Society</td>
<td>3</td>
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<tr>
<td>SOCIOL 101 Introduction to Sociology</td>
<td>3</td>
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<tr>
<td>PSYCH 101 Introduction to Psychology</td>
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<td>HCA 102 Health Care Delivery in the U.S.</td>
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<tr>
<td>PHYSICS 107 Physics in Everyday Life</td>
<td>3</td>
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<td>OR</td>
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<td>PHYSICS 110 Physics for the Health Professions</td>
<td>4</td>
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<tr>
<td>BIO SCI 202 Anatomy and Physiology I</td>
<td>4</td>
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<tr>
<td>BIO SCI 203 Anatomy and Physiology II</td>
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<td>HMS 270 Statistics in the Health Professions: Theory and Practice</td>
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<td>PSYCH 210 Psychological Statistics</td>
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<td>ED PSY 624 Educational Statistical Methods I</td>
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</table>
HS 224  Introduction to Microcomputers for Allied Health Professions  3
PSYCH 260  Child Psychology  3
LINGUIS 350  Introduction to Linguistics  3
HS 250  Allied Health Information Methods  3
OR
ENGLISH 207  Health Science Writing  3
OR
ENGLISH 205  Business Writing  3
EXEDUC 600  Survey of Exceptional Education  3
OR
EXEDUC 300  The Exceptional Individual  3
HCA 222  Language of Medicine  3

Requirements for Health Care Track

Other Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PSYCH 254</td>
<td>Physiology Psychology</td>
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<tr>
<td>HCA 203</td>
<td>Human Life Cycle</td>
<td>3</td>
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Two additional courses, to be selected with the help of your advisor.  6

Requirements for School Track

Other Required Courses

<table>
<thead>
<tr>
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<tr>
<td>ED POL 375</td>
<td>Cultural Foundations of Education</td>
<td>3</td>
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<tr>
<td>ED POL 500</td>
<td>Social Issues and Education</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ED POL 505</td>
<td>Sociology and Education</td>
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<td>OR</td>
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<tr>
<td>ED POL 530</td>
<td>Urban Education: Foundations</td>
<td>3</td>
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<td>OR</td>
<td></td>
<td></td>
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<tr>
<td>ED POL 540</td>
<td>Modern Philosophies of Education</td>
<td>3</td>
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<td>OR</td>
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<tr>
<td>ED POL 650</td>
<td>History of American Education</td>
<td>3</td>
</tr>
<tr>
<td>ED PSY 330</td>
<td>Introduction to Learning and Development</td>
<td>3</td>
</tr>
<tr>
<td>CURRINS 343</td>
<td>Teaching of Reading (EXEDUC sec)</td>
<td>3</td>
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<tr>
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<tr>
<td>CURRINS 643</td>
<td>Teaching Reading in the Elementary School from a Whole Language Perspective</td>
<td>3</td>
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<tr>
<td>COMSDIS 661</td>
<td>The Role of the Speech-Language Pathologist in Literacy</td>
<td>3</td>
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<tr>
<td>HIST 263</td>
<td>North American Indian History Since 1887</td>
<td>3</td>
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<tr>
<td>ETHNIC 203</td>
<td>Western Great Lakes American Indian Community Life of the Past</td>
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</table>

Courses

Communication Sciences and Disorders

Web Home Pages:

[ College of Health Sciences ]
[ Communication Sciences and Disorders ]
The Health Care Administration (HCA) major is designed to prepare students for a variety of careers in health care management. Our program also includes a minor in business administration. Graduates are employed in hospitals, health insurance companies, federal agencies, long-term care facilities, and medical equipment companies. The Health Care Administration program is a full member of the Association of University Programs in Health Administration (AUPHA). Full membership in AUPHA represents programmatic accreditation for undergraduate health administration programs.

Course of Study. The Health Care Administration program offers a four-year curriculum leading to a Bachelor of Science (BS) degree in Health Care Administration. The curriculum includes all necessary requirements for a minor in business administration. Students begin by taking freshman- and sophomore-level foundation courses in the biological and health sciences, health information administration, as well as the liberal arts. This coursework provides a solid basis for the advanced study of health care administration which follows. Successful completion of a faculty-supervised, semester-long internship (typically 15-16 weeks) at an approved health care agency is required in the senior year.

Admission to the Major. The Health Care Administration program will consider applications to the major at the end of each semester, as long as the student's cumulative UWM GPA is 2.50 or above, the student has completed the admission prerequisite courses, and the student has met the grade requirements for required courses. Students are encouraged to apply to the major as soon as they meet these requirements and have achieved sophomore status.

Application forms for admission to the major in HCA can be accessed online or can be requested from the College of Health Sciences (CHS) Office of Student Affairs. Completed application forms and copies of transcripts of previous college work can be submitted to the CHS Office of Student Affairs. The following courses are prerequisites for admission:

Commun 103: Public Speaking

English 102: College Writing and Research or completion of the UWM English competency requirement.

Econ 103: Principles of Microeconomics

or

Econ 104: Principles of Macroeconomics
Math 105: Intermediate Algebra

or

a Math placement level C on the proficiency test

HS/HCA 102: Health Care Delivery in the U.S.

HCA 220: Leading Health Professionals

Students are required to earn a grade of C+ or higher in all HCA and HS courses, and a grade of C or higher in all other required courses. Students who twice earn a grade lower than these requirements in any required course will not be admitted, and if previously admitted, will be dismissed from the HCA major. Such students can submit an appeal to remain in the HCA major.

No student applying to the program with a cumulative UWM GPA lower than 2.50 will be admitted. A student whose cumulative UWM GPA falls below 2.50 will be placed on probationary status and will not be able to graduate with the degree in Health Care Administration until his or her cumulative UWM GPA is 2.50 or higher. Students remaining on probation for more than two consecutive semesters will be dismissed from the major.

Requirements for Internship. The internship is an integral component of the Health Care Administration major. Students under the supervision of a preceptor are given opportunities for management experience in local, national, and international health care organizations. Students must be admitted to the major and complete the internship application form by October 1 for spring semester and March 1 for the fall semester. Prior to internship, students must complete a background check and health screening requirements.

Graduation Requirements. The following requirements must be met to graduate.

1. Completion of the required 128 credits;
2. A cumulative UWM GPA of 2.5;
3. A grade of C+ or better in all Health Care Administration courses (HCA & HS) and a C or better in all other required courses; and
4. Completion of all University General Education Requirements.

Curriculum for the Health Care Administration Major

**Freshman Year – Semester I**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
<td>4</td>
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<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HS 101</td>
<td>Introduction to Health and Disease</td>
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<td>HS 105</td>
<td>Survey of the Health Professions</td>
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**Freshman Year – Semester II**

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<tr>
<td>BIO SCI 203</td>
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<tr>
<td>COMMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
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<td>HS 224</td>
<td>Introduction to Microcomputers for Allied Health Professions</td>
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**Sophomore Year – Semester I**

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<tr>
<td>HS 102</td>
<td>Health Care Delivery in the United States</td>
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<tr>
<td>HCA 220</td>
<td>Leading Health Care Professionals</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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<tr>
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<tr>
<td>BMS (HS) 301</td>
<td>Human Pathophysiology: Fundamentals</td>
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<tr>
<td>BMS (HS) 302</td>
<td>Human Pathophysiology: Organ Systems I</td>
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<tr>
<td>BMS (HS) 303</td>
<td>Human Pathophysiology: Organ Systems II</td>
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<td>KIN 270</td>
<td>Statistics in the Health Professions: Theory and Practice</td>
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<td>ECON 103</td>
<td>Principles of Microeconomics</td>
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**Sophomore Year – Semester II**

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<tr>
<td>BMS (HS) 304</td>
<td>Human Pathophysiology: Organ Systems III</td>
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<td>BMS (HS) 305</td>
<td>Human Pathophysiology: Organ Systems IV</td>
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<td>HCA 203</td>
<td>Human Life Cycle</td>
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<td>HCA 307</td>
<td>Epidemiology for the Health Sciences</td>
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<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
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<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
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**Junior Year – Semester I**

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<td>Introduction to Financial Accounting</td>
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<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
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<tr>
<td>HS 250</td>
<td>Allied Health Information Methods</td>
<td>2</td>
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<tr>
<td>HCA 537</td>
<td>Introduction to Health Care Databases and Technologies</td>
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<td>HCA 450</td>
<td>Health Care Quality Management</td>
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**Junior Year – Semester II**

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<td>HCA 333</td>
<td>Health Organizations Professional Practice Standards</td>
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<tr>
<td>HCA 340</td>
<td>Health Care Process Measurement</td>
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<tr>
<td>HCA 541</td>
<td>Health Care Information Systems Analysis and Design</td>
<td>3</td>
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<tr>
<td>HS 311</td>
<td>Law for Health Care Consumers and Professionals</td>
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<td>BUS ADM 350</td>
<td>Principles of Finance</td>
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**Senior Year – Semester I**

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<td>Health Care Database Design and Management</td>
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<tr>
<td>HCA 421</td>
<td>Operations Management in Health Care Organizations</td>
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<td>HCA 422</td>
<td>Human Resource Management in Health Care Organizations</td>
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<tr>
<td>BUS ADM 370</td>
<td>Introduction to Supply Chain Management</td>
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<tr>
<td>HCA 521</td>
<td>Advanced Systems Thinking for Health Care Leaders</td>
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**Senior Year – Semester II**

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<th>Course Title</th>
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<td>HCA 502</td>
<td>Health Care Delivery Systems: National and International Perspectives</td>
<td>3</td>
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<tr>
<td>HCA 580</td>
<td>Health Care Administration Internship</td>
<td>3</td>
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<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
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<td>HCA 460</td>
<td>Health Care Reimbursement Systems</td>
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**Minor in Health Care Administration**
The minor in Health Care Administration consists of 17 credits and may be declared once a student has completed a minimum of 45 credits and achieved a minimum cumulative GPA of 2.5. To obtain the minor, a student must complete at UWM the 17 credits on which a minimum 2.5 cumulative GPA is also required. Declaration forms for the Health Care Administration Minor are available in the College of Health Sciences, Office of Student Affairs, NWQ Building B, 6th Floor. For more information or to schedule an advising appointment, please call (414) 229-2758.

- HS 102 Health Care Delivery in the United States (3 cr.)
- HCA 220 Leading Health Care Professionals (3 cr.)
- HS 311 Law for Health Care Consumers and Providers (3 cr.)
- HCA 333 Health Organizations Professional Practice Standards (2 cr.)
- HCA 537 Introduction to Health Care Databases and Technologies (3 cr.)
- HCA 422 Human Resources Management in Health Care Organizations (3 cr.)

**Certificates in Health Care Informatics**

*(Offered cooperatively by the University of Wisconsin-Milwaukee College of Health Sciences and School of Information Studies.)*

UWM recently launched the MS Health Care Informatics and the PhD Medical Informatics programs. This new certificate will provide undergraduate students with the educational foundation to pursue health informatics graduate studies. Students may work towards the certificate concurrently with any undergraduate major or as a post-baccalaureate certificate.

Health care organizations employ a vast and complex array of information systems. In order to utilize and maintain these systems, many more knowledgeable and skilled employees are needed.

The objectives of the program are to prepare students to understand, analyze and evaluate information technology used to perform administrative and clinical tasks in a health care organization.

The program will be of value to students in the health professions, information studies, and related areas of study who are seeking professional employment with hospitals, clinics, health insurance and pharmaceutical companies, as well as with vendors who have designed, developed, and installed health care information systems.

The purpose of the certificate is to provide an introduction and basic foundation for health professional, information studies, and other students in the emerging practice of health care informatics.

**Coursework will focus on:**

1. Introduction to information technology theory and application, with a special emphasis on Internet communication;
2. Analysis and design of information systems in a health care environment;
3. Design, creation, and management of health care database systems; and
4. Legal aspects of information products and services.

**Curriculum.** The following requirements must be successfully completed to obtain a Certificate in Health Care Informatics. Complete each course with a minimum grade of C and a cumulative GPA for the certificate program of 2.5.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HS 222</td>
<td>Language of Medicine</td>
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<td>HS 224</td>
<td>Introduction to Microcomputers for Allied Health Professions</td>
<td>3</td>
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<tr>
<td>L&amp;I SCI 110</td>
<td>Introduction to Information Sciences</td>
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<tr>
<td>L&amp;I SCI 230</td>
<td>Organization of Knowledge</td>
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<tr>
<td>L&amp;I SCI 250</td>
<td>Internet Communication and Information Transfer</td>
<td>3</td>
</tr>
<tr>
<td>HCA 537</td>
<td>Introduction to Health Care Databases and Technologies</td>
<td>3</td>
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</tbody>
</table>
HCA 541 Health Care Information Systems Analysis and Design 3
OR
L&I SCI 340 Information Architecture II 3
HCA 542 Health Care Database Design and Management 3
L&I SCI 465 Legal Aspects of Information Products and Services 3
Total 24

Courses

Health Care Administration

Health Sciences

Web Home Pages:
[ College of Health Sciences ]
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Nutritional Sciences

The Nutritional Sciences (NUTR) program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health. The curriculum provides a varied foundation in research, education, industry, and government and serves as an excellent preprofessional major for students planning a career in medicine, pharmacy, or dentistry. The NUTR curriculum also offers an ideal preparation for advanced graduate training in nutrition, biochemistry, molecular biology, public health, and related disciplines.

Course of Study. The Departments of Biomedical Sciences and Kinesiology offer a Bachelor of Science in Nutritional Sciences as a four-year curriculum. Students in NUTR will carry a classification of “Nutrition-Intended” and spend the majority of their first two years satisfying prerequisites, including the foundation or “core” curriculum and general education requirements. A set of seven (7) nutrition courses (19 credits) serves as the core curriculum for the NUTR degree. These courses will equip students with the knowledge and skills in the natural and social sciences that are essential underpinnings to nutrition science. In addition, students will develop critical thinking and professional communication skills through coursework in public speaking, statistics, business and professional writing, and courses which delve into relevant research literature. To be eligible to apply for and progress into the professional years of study, students are required to meet program eligibility requirements.

Total credits for graduation with a Nutritional Sciences major = 123. Students are required to complete a minimum of 34 credits in the major, including 19 in the “core” nutrition curriculum and 15 in the “advanced core” curriculum. In addition, students will have the opportunity to focus their learning in specific areas of nutrition, including nutrition communications, wellness and weight management, and sports nutrition by obtaining 18 “correlate” credits in courses supporting the emphasis area.

Admission. Admission to the University is achieved by satisfying UWM admission requirements. Students pursuing a Bachelor of Science in Nutritional Sciences must apply specifically to the Nutritional Sciences program. The application process begins during the semester prior to the final two years of the curriculum, while completing the final nutrition “core” courses and the majority of the general education requirements. The following criteria are required prior to admission to the major:
1. Overall cumulative UWM GPA of 2.75;
2. Completion of the majority of UWM’s General Education Requirements before the fall semester of the professional years;
3. Demonstration of English and math proficiency (in accordance with established University standards);
4. Verification that the following foundation courses, or their equivalent, will be completed by the end of the semester before their professional years, with no grade lower than a C:

   **Foundation Courses**
   - BIO SCI 150 Foundations of Biological Sciences I
   - BIO SCI 202 Anatomy & Physiology I
   - BIO SCI 203 Anatomy & Physiology II
   - CHEM 102 General Chemistry
   - CHEM 104 General Chemistry and Qualitative Analysis
   - PSYCH 101 Introduction to Psychology or SOCIOL 101 Introduction to Sociology or ANTHRO 102 Introduction to Anthropology
   - KIN 270 Statistics in the Health Professions

5. Verification that the following “Core” nutrition courses will be completed by the end of the semester before the professional years with a 2.75 GPA and no grade lower than a C:

   **Core Nutrition Courses**
   - KIN 241 Why We Eat What We Eat: An Ecological Approach
   - NUTR 235 Introduction to Nutrition for the Health Professions
   - NUTR 210 Food Science
   - NUTR 245 Life Cycle Nutrition
   - NUTR 240 Nutrition for Exercise and Wellness
   - NUTR 110 Introduction to Food Principles & Preparation
   - NUTR 101 Introduction to the Nutrition Profession

6. Verification that the overall cumulative GPA of 2.75 is achieved without repeating more than 3 of the courses listed in items 4 and 5 more than once each; and
7. Completed application for admission to the Nutritional Sciences program submitted to the Department of Kinesiology. Applications are accepted on a rolling basis at the end of each semester.

**Retention.** The following criteria are required for retention in the professional years of study and for graduation:

1. Maintenance of a 2.5 cumulative UWM GPA;
2. Completion of the following Advanced Core courses with an average 2.75 GPA and no grade lower than a C. Students may repeat only one of the Advanced Core courses one time. If the required GPA is not met after exhausting all repeats, the student will be dismissed from the program:

   **Advanced Core Nutrition Courses**
   - NUTR 435 Nutrition and Disease I
   - NUTR 355 Modifying Nutrition and Eating Behavior
   - NUTR 430 Advanced Nutrition and Metabolism
   - NUTR 470 Nutrition Internship/Project
   - NUTR 350 Nutrition Communication and Education (Oral and Written Competency Part B)

3. Completion of all required courses, correlates, and elective credits (123 minimum degree credits);
4. Each semester after final grades are posted, if the minimum UWM cumulative GPA of 2.5 and the minimum Advanced Core GPA of 2.75 are not met, the student will be placed on probation for one semester. After that one semester, if the UWM cumulative GPA of 2.5 and the Advanced Core GPA of 2.75 are not met, the student will be dismissed from the program; and
5. Completion of the Quantitative Literacy Part B requirement with KIN 270.

**Additional coursework required.** Additional coursework required for the major includes the following courses:

- COMMUN 103 Public Speaking (HU)
- ANTHRO 150 Multicultural America or GER Social Science (SS)
- CHEM 341 Organic Chemistry
BIO SCI 101 General Survey of Microbiology
CHEM 501 Introduction to Biochemistry
KIN 400 Ethics and Values in the Health and Fitness Professions
ENGLISH 205 Business Writing or ENGLISH 207 Health Science Writing
BMS/KIN 245 Client Diversity in the Health Sciences (SS&)
BUS ADM 292 Introduction to Entrepreneurship and Small Business Formation
Elective (Arts-3 credits)
Elective (HU-3 credits)
Electives (9 credits)
Correlate courses (18 credits from a list of correlates including 6 credits at the 300 level or above supporting the student’s chosen emphasis area of nutrition)

Curriculum for Nutritional Sciences Major

Freshman Year – Semester I

<table>
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<tr>
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<th>Credits</th>
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<td>Why We Eat What We Eat F S*</td>
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<td>CHEM 102</td>
<td>General Chemistry F-S-Su*</td>
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<td>Foundations of Biological Sciences F-S-Su*</td>
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<td>Public Speaking F-S-Su</td>
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Freshman Year – Semester II

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<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis F-S-Su*</td>
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<td>PSYCH 101</td>
<td>Introduction to Psychology F-S-Su OR</td>
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<td>Introduction to Anthropology F-S-Su*</td>
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Sophomore Year – Semester I

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<td>NUTR 235</td>
<td>Introduction to Nutrition for the Health Professions F*</td>
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<td>KIN 270</td>
<td>Statistics in Health Professions F-S-Su*</td>
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<td>CHEM 341</td>
<td>Introduction to Organic Chemistry F</td>
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<td>GER Arts</td>
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Sophomore Year – Semester II

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<td>NUTR 240</td>
<td>Nutrition for Exercise and Wellness S*</td>
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<td>Life Cycle Nutrition S*</td>
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<td>BIO SCI 101</td>
<td>General Survey of Microbiology F-S-Su</td>
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<td>NUTR 210</td>
<td>Food Science S*</td>
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Junior Year – Semester I

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<td>NUTR 350</td>
<td>Nutrition Communication and Education F*</td>
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<td>CHEM 501</td>
<td>Introduction to Biochemistry F-S</td>
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<td>NUTR 355</td>
<td>Modifying Nutrition and Eating Behavior F*</td>
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<td>ENGLISH 205</td>
<td>Business Writing F-S-Su OR</td>
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<td>ENGLISH 207</td>
<td>Health Science Writing F</td>
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<td>BMS/KIN 245</td>
<td>Client Diversity in the Health Sciences S</td>
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<td>NUTR 430</td>
<td>Advanced Nutrition and Metabolism S*</td>
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<td>Elective</td>
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**Junior Year – Semester II**

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<td>Ethics and Values in the Health and Fitness Professions F-S</td>
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<td>NUTR 435</td>
<td>Nutrition and Disease I F*</td>
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**Senior Year – Semester I**

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<td>NUTR 470</td>
<td>Nutrition Internship/Project F-S*</td>
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<td>BUS ADM 292</td>
<td>Introduction to Entrepreneurship and Small Business Formation F-S</td>
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<td>Elective</td>
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<td>Correlate (300 level or higher)</td>
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* Students must obtain a minimum of C in these courses to graduate.

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**Minor in Nutritional Sciences**

The Minor in Nutritional Sciences provides students the opportunity to study food and nutrients, their physiological functions, normal nutritional requirements, and the myriad of influences on food choice and eating behavior throughout the life cycle. The required science foundation courses provide the necessary background of chemistry and biological sciences to understand the physiological basis of nutrition, as a multidisciplinary science with relevance to health.

Upon completion of the Minor in Nutritional Sciences, students will be able to:

- Describe the relationship between food and nutrients in human health and well-being;
- Discuss the function, physiology, dietary sources, and symptoms and consequences of deficiency and toxicity for macro- and micronutrients;
- Apply nutrition principles to the human life cycle: nutrient functions, needs, sources, and alterations during pregnancy, lactation, growth and development, maturation, and aging;
- Examine the multiple levels of influence (i.e., intrapersonal, interpersonal, institutional/organizational, community, political, and cultural) that shape food choice and eating behavior;
- Apply scientific principles of basic food chemistry in examining food’s physical aspects and preparation; and
- Apply biological and biochemical principles to the understanding of the human digestion and metabolism of macro- and micronutrients.

**The Minor in Nutritional Sciences involves the completion of 21 credits of nutrition-related coursework.**

**Core coursework (15 credits):**

- NUTR 110 Introduction to Food Principles & Preparation (3 credits)
**NUTR 235** Introduction to Nutrition for Health Professionals (3 credits) OR **BMS 232** Introduction to Nutrition (3 credits)
**NUTR 240** Nutrition for Exercise and Wellness (3 credits)
**NUTR 245** Life Cycle Nutrition (3 credits)
**KIN 241** Why We Eat What We Eat: An Ecological Approach (3 credits)

**Advanced coursework (select 6 credits from the following):**

- **NUTR 355** Modifying Nutrition and Eating Behavior (3 credits)
- **NUTR 430** Advanced Nutrition and Metabolism (4 credits)
- **NUTR 435** Nutrition and Disease I (3 credits)
- **NUTR 550** Sports Nutrition (3 credits)
- **NUTR 555** Public Health Nutrition and Food Politics (3 credits)
- **NUTR 573** Body Image: Health-Related Issues and Implications (3 credits)
- **BMS 332** Clinical Nutrition (2 credits)
- **KIN 574** Obesity and Weight Management (3 credits)

*This list of courses may be modified by the Nutritional Sciences Program Committee as additional courses are developed.*

Due to the **prerequisites** for some of the advanced nutrition courses, students will need to have completed the following scientific foundations courses:

- **BIO SCI 150** Foundations of Biological Sciences I (4 credits)
- **BIO SCI 202** Anatomy & Physiology I (4 credits)
- **BIO SCI 203** Anatomy & Physiology II (4 credits)
- **CHEM 103** Survey of Biochemistry (4 credits) or **CHEM 501** Introduction to Biochemistry (3 credits)

To be awarded the Minor in Nutritional Sciences, students will need to: (1) Maintain a GPA of 3.0 with no grade lower than a C in core and advanced nutrition courses as well as the scientific foundation courses; (2) Verify that the overall cumulative GPA of 2.75 is achieved without repeating more than 3 of the courses considered core, advanced, or scientific foundations coursework. Students concurrently enrolled in a bachelor’s degree program successfully completing the program requirements will be awarded the Minor in Nutritional Sciences at the time of graduation.

Academic advisors within the College of Health Sciences Office of Student Affairs will assist students enrolled in the program with the development of career goals and the selection of appropriate courses to further those goals. Please contact the Office of Student Affairs at (414) 229-2758.
Athletic Training

Certified athletic trainers are health care professionals who specialize in preventing, recognizing, managing, and rehabilitating injuries in physically active individuals. As part of a complete health care team, the certified athletic trainer works under the direction of a licensed physician and in cooperation with other health care professionals, athletics administrators, coaches, and parents.

Course of Study. The Department of Kinesiology offers a Bachelor of Science in Athletic Training as a four-year curriculum. The major consists of one semester of pre-Athletic Training study, and 7 semesters once admitted to the Athletic Training Education Program (ATEP) leading to the completion of 130 credits and a Bachelor of Science in Athletic Training degree. The program is accredited by the Commission on the Accreditation of Athletic Training Education.

Admission. Admission to the University is done by satisfying UWM admission requirements. Students pursuing a Bachelor of Science in Athletic Training must apply specifically to the ATEP. The application process begins during the fall pre-Athletic Training semester and students are admitted into the ATEP in January. Students must meet the following criteria to be eligible for application to the ATEP:

1. Cumulative UWM GPA of 2.5 (12 credits minimum);
2. Enrollment in Introduction to Kinesiology (KIN 200), Field Work in Athletic Training (KIN 212) and Responding to Emergencies (HMS 310) courses; and
3. Enrollment in Anatomy and Physiology I (BIO SCI 202). (Earned grade of C or better prior to admission).

Students who meet the minimum eligibility requirements are invited to apply for admission into the ATEP. Application materials are distributed as part of the Field Work in Athletic Training (KIN 212) class. Admission is competitive, since the ATEP can accommodate approximately 40 students. Selection is based on the following criteria:
1. Performance evaluations and final grade in Field Work in Athletic Training (HMS 212);
2. Academic performance;
3. Interview;
4. Responsive essay; and
5. Fulfillment of technical standards.

Detailed information regarding the selection process and technical standards is available in the Office of Student Affairs (NWQ Building B, 6th Floor) and Department of Kinesiology reception area (Enderis 411) or on the ATEP Web site: www.atep.uwm.edu.

Retention Criteria. Once admitted into the ATEP, the student must attain a minimum semester GPA of 2.75 each semester to remain in good standing. Failure to attain a semester GPA of 2.75 or higher will result in the student being placed on academic probation for one semester. A second semester GPA below 2.75 will result in dismissal from the program. To remain eligible for clinical education coursework (KIN 416), students must attain a grade of B- or better in each of the five competency courses (HMS 416).

Foundation Courses. The following courses must be completed with a grade of C or better prior to beginning the junior year. One-semester appeals may be granted provided the student has a cumulative GPA of at least 2.5 and is concurrently enrolled in the course(s) necessary to satisfy the requirement.

- MATH 105 - Intermediate Algebra
- PSYCH 101 - Introduction to Psychology
- SOCIOL 101 - Introduction to Sociology
- BIO SCI 202 - Anatomy and Physiology I
- BIO SCI 203 - Anatomy and Physiology II
- CHEM 100 - Chemical Science
- PHYSICS 120 - General Physics (Non-calculus)
- KIN 200 - Introduction to Kinesiology
- KIN 270 - Statistics in the Health Professions
- CLS 232 - Introduction to Nutrition

Internship Eligibility Criteria. To enroll in KIN 489 Kinesiology Internship and Seminar, the student must meet the following criteria:

Athletic Training Core Courses. The student must complete all of the following courses with a minimum GPA of 2.75:

- KIN 216 - Organization and Administration in Athletic Training
- KIN 312 - Introduction to Athletic Training
- KIN 314 - Recognition and Evaluation of Injuries: Lower Extremity
- KIN 315 - Recognition and Evaluation of Injuries: Upper Extremity
- KIN 316 - Recognition and Evaluation of Injuries: Head, Neck, and Trunk
- KIN 336 - Principles of Strength and Conditioning
- KIN 410 - Medical Aspects of Illness Management
- KIN 413 - Therapeutic Modalities in Athletic Training
- KIN 414 - Therapeutic Exercise and Evaluation in Athletic Training

Kinesiology Core Courses. The student must have a minimum GPA of 2.75 in all of the following courses that have been completed, and have no more than three courses remaining.

- KIN 320 - Biomechanics
- KIN 325 - Anatomical Kinesiology
- KIN 330 - Exercise Physiology
- KIN 350 - Psychological Aspects of Sport and Exercise
- KIN 351 - Sociological Aspects of Health and Human Movement
Students should be aware that the Kinesiology Internship and Seminar (KIN 489) course requires either a full-time (40 hours per week) commitment for 16 weeks, or a 20-hour-per-week commitment over two consecutive semesters. In addition to the criteria listed previously, the student must be in good standing within the ATEP and have approval from the ATEP Director of Clinical Education to begin the internship.

**Graduation Requirements.** The following requirements must be met to graduate:

1. Completion of the required 130 degree credits;
2. Cumulative UWM GPA of 2.5; and
3. GPA of 2.75 in Human Movement Sciences Core courses.

**Curriculum for the Athletic Training Major**

### Freshman Year - Semester I

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<td>KIN 212</td>
<td>Fieldwork in Athletic Training</td>
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<td>KIN 310</td>
<td>Responding to Emergencies</td>
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<td>Introduction to Prevention, Care, and Treatment of Athletic Injury</td>
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<td>KIN 416</td>
<td>Competencies in Athletic Training</td>
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<td>BIO SCI 203</td>
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<td>KIN 325</td>
<td>Anatomical Kinesiology</td>
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<td>BMS 232</td>
<td>Introduction to Nutrition</td>
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<td>MATH 105</td>
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### Sophomore Year - Semester I

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<td>Recognition &amp; Evaluation of Injuries: Lower Extremity</td>
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<td>KIN 413</td>
<td>Therapeutic Modalities in Athletic Training</td>
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<tr>
<td>KIN 416</td>
<td>Competencies in Athletic Training</td>
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<td>KIN 270</td>
<td>Statistics in the Health Professions</td>
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<td>PHYSICS 120</td>
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### Sophomore Year - Semester II

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<td>KIN 315</td>
<td>Recognition &amp; Evaluation of Injuries: Upper Extremity</td>
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<td>Biomechanics</td>
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### Junior Year - Semester I
KIN 414  Therapeutic Exercise and Evaluation in Athletic Training F  3
KIN 316  Recognition and Evaluation of Injuries: Head, Neck, and Trunk F  3
KIN 416  Competencies in Athletic Training F-S  2
KIN 330  Exercise Physiology F-Su  4
KIN 351  Sociological Aspects - Health and Human Movement F  3
Total  15

Junior Year - Semester II

KIN 216  Organization/Administration of Athletic Training S  3
KIN 410  Medical Aspects of Illness Management S  3
KIN 416  Competencies in Athletic Training F-S  2
KIN 336  Principles of Strength Training I S  3
KIN 350  Psychological Aspects of Movement and Leisure S  3
Correlate  3
Total  17

Senior Year - Semester I

KIN 489  Kinesiology Internship and Seminar^2 F-S-Su  7
KIN 460  Introduction to Motor Development F  3
BMS 301  Human Pathophysiology: Fundamentals F-Su  1
BMS 302  Human Pathophysiology: Organ Systems I F-Su  1
BMS 303  Human Pathophysiology: Organ Systems II F-Su  1
GER Arts Elective  3
Total  16

Senior Year - Semester II

KIN 489  Kinesiology Internship & Seminar^2 F-S-Su  7
KIN 400  Ethics and Values in the Health and Fitness Professions S  3
KIN 461  Principles of Motor Learning S-Su  3
Elective  3
Total  16

1 Students must attain a minimum grade of C or better in HMS 200, HMS 270, CHEM 100, Phys 120, BIO SCI 202, BIO SCI 203, MATH 105, PSYCH 101, and SOCIOL 101.

^2 Kinesiology Internship and Seminar (KIN 489) is a 640-hour internship requirement. This may be taken as a full-time internship for one semester, or a half-time internship for two semesters.

UWM's Cultural Diversity requirement must be met through elective courses. Courses that meet Cultural Diversity are identified on the GER Distribution List in the Schedule of Classes.

Number of elective credits is subject to change as of the publication date of this catalog. Please contact the Office of Student Affairs in NWQ Building B, 6th Floor, for the most up-to-date information.

NOTE: To be eligible for internship or to graduate, students must achieve a minimum UWM cumulative GPA of 2.5 and a minimum cumulative GPA of 2.75 in the KIN core courses: KIN 320, 325, 330, 350, 351, 400, 460, 461; a cumulative GPA of 2.75 in the Athletic Training Core courses: KIN 216, 312, 314, 315, 316, 336, 410, 413, 414; and in each section of KIN 416 (5), students must earn a minimum grade of B- in each of these courses to progress in the program.

Kinesiology
What is Kinesiology? "Kinesiology' is an academic discipline that involves the study of physical activity and its impact on health, society, and quality of life." – American Kinesiology Association

Students majoring in kinesiology study the social, behavioral, mechanical, and physiological principles of human movement.

Kinesiology professionals use physical activity intervention techniques as health, wellness, and/or fitness providers in commercial health/fitness clubs, community fitness centers, corporate/industrial fitness facilities, and occasionally clinical agencies. In addition, the program has the flexibility for you to create an educational path tailored to your career goals. An example would be combining a major in kinesiology with a minor in business administration, thus giving you the tools to enter the administrative sector of the health and fitness industry. The kinesiology undergraduate degree can also be used as a preparatory program for individuals seeking specialized training in fields such as exercise physiology, cardiac/pulmonary rehabilitation, chiropractic care, physician, nursing, physician assistant, or physical therapy.

Course of Study. The undergraduate program in the Department of Kinesiology is a four-year curriculum leading to a Bachelor of Science degree in Kinesiology. The program consists of foundations study, kinesiology professional core study, and lastly, a capstone experience consisting of either an internship or advanced coursework, all leading to the completion of 120 credits for the Bachelor of Science degree.

Admission to Kinesiology Foundations. Admission to foundations study is attained by satisfying UWM admission requirements. Students need a C or better in these 10 foundations courses in order to graduate (maximum of four repeats).

  - KIN 270 - Statistics in the Health Professions
  - BIO SCI 202 - Anatomy and Physiology I
  - BIO SCI 203 - Anatomy and Physiology II
  - SOCIOL 101 - Introduction to Sociology
  - ENGLISH 205 - Business Writing
  - PSYCH 101 - Introduction to Psychology
  - CHEM 100 or 200 - Chemical Science
  - PHYSICS 120 - General Physics I
  - C L SCI 232 - Introduction to Nutrition

Admission to Kinesiology Core Study. In order to move on to the Kinesiology Professional Core Study courses, the following admission criteria must be met:

1. 2.5 cumulative GPA;
2. Minimum grade of C in the following foundations courses:
   - KIN 270 - Statistics in the Health Professions
   - BIO SCI 202 - Anatomy and Physiology I
   - BIO SCI 203 - Anatomy and Physiology II
   - PHYSICS 120 - General Physics I
   - CHEM 100 or 102 - Chemical Science;
3. Demonstration of English and math proficiency (in accordance with established University standards);
4. Completed application for admission to the Kinesiology Core Study turned in to the Department of Kinesiology. Applications are accepted on a rolling basis at the end of each semester; and
5. When the criteria are met and application accepted, the student will be "In Good Standing" within the Kinesiology Program.

NOTE: Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change. Please contact the Office of Student Affairs, Merrill 115, (414) 229-2758, for the most current information.

Kinesiology Core Study. The following 10 courses comprise the Kinesiology Professional Core for the Bachelor of Science degree in Kinesiology.
Students are required to maintain a core GPA of 2.75 throughout their course of study. Should the core GPA in either a semester or cumulatively fall below a 2.75, the student will be placed on probation for one semester. The student has that semester to increase the core GPA above a 2.75. If the student's GPA remains below a 2.75 for a second consecutive semester, the student will be dismissed from the program.

NOTE: Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change as of the publication date of this catalog. Please contact the Student Services Office, Merrill 115, (414) 229-2758, for the most current information.

Capstone Experience. Two options exist for the student capstone experience:

A. KIN 489 - Kinesiology Internship & Seminar (14 cr.) or

B. Capstone Credits - KIN 5xx (500 level class) (3 cr.) and additional classes from Capstone course list (11 credits).

Admission to Internship. The following requirements must be met before enrolling in the KIN 489 Kinesiology Internship and Seminar:

1. Completion of all other curriculum requirements;
2. 2.5 cumulative GPA;
3. 2.75 cumulative GPA for all Kinesiology core courses; and
4. Verification of 320 hours of post-high school paid or volunteer work experience in the health/fitness field.

Students should be aware that the Kinesiology Internship and Seminar (KIN 489) course requires either a full-time (40 hours per week) commitment for 16 weeks (exercise and fitness submajor and health and fitness management submajor) or a 20-hour-per-week commitment over two consecutive semesters (Research Internship only).

Graduation Requirements. The following requirements must be met to graduate:

1. Completion of the required 120 degree credits;
2. Cumulative UWM GPA of 2.5; and
3. GPA of 2.75 in Kinesiology (KIN) professional core courses.

Sample Curriculum for Kinesiology Major
Courses in bold are admission requirements to move on to the Kinesiology Professional Core Study.

Freshman Year - Semester I

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 202</td>
<td>4</td>
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<tr>
<td>KIN 200</td>
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<tr>
<td>MATH 105</td>
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<tr>
<td>Course</td>
<td>Cr.</td>
</tr>
<tr>
<td>----------------------</td>
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<tr>
<td>ENGLISH 102</td>
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<tr>
<td>BIO SCI 203</td>
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</tr>
<tr>
<td>CHEM 110</td>
<td>4</td>
</tr>
<tr>
<td>SOCIOL 101</td>
<td>3</td>
</tr>
<tr>
<td>KIN 270</td>
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<td>Total</td>
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<tr>
<td>PSYCH 101</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>4</td>
</tr>
<tr>
<td>BMS 232</td>
<td>3</td>
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<tr>
<td>COMMUN 103</td>
<td>3</td>
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<tr>
<td>Electives</td>
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<tr>
<td>Total</td>
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</tr>
<tr>
<td>KIN 320</td>
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<td>ENGLISH 205</td>
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<td>Electives</td>
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<td>Total</td>
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<tr>
<td>KIN 351</td>
<td>3</td>
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<tr>
<td>KIN 330</td>
<td>4</td>
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<tr>
<td>GER Humanities</td>
<td>3</td>
</tr>
<tr>
<td>GER Cultural Diversity</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>16</td>
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<td>KIN 461</td>
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<td>GER Arts</td>
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<td>Capstone</td>
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<td>Total</td>
<td>14</td>
</tr>
</tbody>
</table>

* This sample plan assumes students place into MATH 105 and ENGLISH 102. The plan also assumes students complete two years of a single foreign language in high school.
Students must earn a 2.75 GPA in Kinesiology core courses (KIN-xxx).

Kinesiology Internship and Seminar (KIN 489) is a 640-hour internship requirement. This may be taken as a full-time, full-semester commitment for 14 credits, or as two half-time, full-semester internships (7 cr. in each of two consecutive semesters). Available for qualified students are a limited number of "Research Internship" opportunities that begin during a fall semester and conclude with a senior research project presentation the following spring semester. Students must achieve a 2.75 GPA in Kinesiology core courses to be eligible for KIN 489 Internship & Seminar.

For more information about the Research Internship, contact the Undergraduate Program coordinator of the Department of Kinesiology, Tracy Oles-Fairchild (414) 229-6694.

NOTE: Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change. Please contact the Office of Student Affairs, NWQ Building B, 6th Floor, (414) 229-2758, for the most current information.

Nutritional Sciences

The Nutritional Sciences Program is a 123-credit interdisciplinary undergraduate major administered jointly by the Biomedical Sciences and Kinesiology Departments in the College of Health Sciences. The Nutritional Sciences program is designed to provide students with a strong foundation in biological, physical, and social sciences, in order to understand the relationships among food, nutrients, eating behavior, and human health. For more information about the Nutritional Sciences program, see the Nutritional Sciences Program description in the Interdisciplinary Majors section of the College of Health Sciences programs in this catalog.

Students Interested in Physical Therapy

Physical therapy is an integral and unique component of the health care system. As a health profession, physical therapy focuses on the neuromuscular, musculoskeletal, and cardiopulmonary systems of the human body as these systems relate to human motion and function. Human movement and the ability to interact physically with one's environment are essential components of physical, emotional, and social well-being. The physical therapist is dedicated to promoting health, preventing disease, and rehabilitating individuals disabled by injury or disease.

The American Physical Therapy Association (APTA) requires students pursuing a career in physical therapy to enter the profession with a post-baccalaureate degree.

An undergraduate degree in Kinesiology will prepare students by providing them with the necessary coursework required to enter most physical therapy graduate programs in the country, provided the student meets other admission criteria.

Admission to a DPT program is competitive. Students must maintain a cumulative GPA of 3.0 or better to be eligible for admission. Completion of UWM's Kinesiology Bachelor of Science degree does not guarantee admission to UWM's DPT program. Also, be aware of the admission requirements for each individual program as they do vary.

Sample Plan for Kinesiology Major Student Interested in Physical Therapy

**Freshman Year - Semester I**

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 202</td>
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</tr>
<tr>
<td>KIN 200</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>3</td>
</tr>
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<td>Total</td>
<td>13</td>
</tr>
</tbody>
</table>

**Freshman Year - Semester II**

<table>
<thead>
<tr>
<th>Course</th>
<th>Cr.</th>
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</thead>
<tbody>
<tr>
<td>BIO SCI 202</td>
<td>4</td>
</tr>
<tr>
<td>KIN 200</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td>13</td>
</tr>
</tbody>
</table>
BIO SCI 203  4
CHEM 100  4
SOCIOL 101  3
KIN 270  3
Total  14

**Sophomore Year - Semester I**  

PHYSICS 120/121  5
CHEM 102  5
GER Humanities  3
PSYCH 101  3
Total  16

**Sophomore Year - Semester II**  

PHYSICS 122/123  5
CHEM 104  5
KIN 320  3
KIN 325  3
Total  16

**Junior Year - Semester I**  

KIN 351  3
KIN 330  4
BMS 232  3
GER Cultural Diversity  3
COMMUN 103  3
Total  16

**Junior Year - Semester II**  

KIN 461  3
GER Arts  3
KIN 350  3
ENGLISH 205  3
Electives  3
Total  15

**Senior Year - Semester I**  

KIN 460  3
KIN 400  3
KIN 488  1
KIN 5xx  3
Electives  6
Total  16

**Senior Year - Semester II**  

Capstone  14
Total  14

* This sample plan assumes students place into MATH 105 and ENGLISH 102. The plan also assumes students complete two years of a single foreign language in high school.

1 To graduate, students must achieve a minimum grade of C or better in foundations courses and earn a 2.75 GPA in Kinesiology core courses. Students pursuing physical therapy graduate study in a non-research-focused program are
encouraged to complete correlates in place of the Kinesiology Internship and Seminar (KIN 489).

2 Kinesiology Internship and Seminar (KIN 489) is a 640-hour internship requirement. This may be taken as a full-time, full-semester commitment for 14 credits, or as two half-time, full-semester internships (7 cr. in each of two consecutive semesters). Available for qualified students are a limited number of "Research Internship" opportunities that begin during a fall semester and conclude with a senior research project presentation the following spring semester. Students must achieve a 2.75 GPA in junior and senior Kinesiology core courses. For more information about the Research Internship, contact the Undergraduate Program Director of the Department of Kinesiology, Tracy Oles-Fairchild.

NOTE: Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change. Please contact the Office of Student Affairs, NWQ Building B, 6th Floor, (414) 229-2758, for the most current information.

Certificate Programs

Strength and Conditioning

The Strength and Conditioning Certificate Program is designed to prepare students for the National Strength and Conditioning Association's (NSCA) Certified Strength and Conditioning Specialist exam. In addition, this program provides the basic knowledge (and in fact exceeds the requirements) for individuals to succeed on the NSCA-Certified Personal Trainer examination and the American Council on Exercise’s Certified Personal Trainer examination.

The Strength and Conditioning Program incorporates the basic movement science curriculum with a number of courses that focus on 1) the application of fundamental principles of exercise and strength training, and 2) preparation for nationally recognized certification exams (i.e., American Council on Exercise Personal Trainer, National Strength and Conditioning Association’s Personal Trainer and Strength and Conditioning Specialist). The program may be taken by UWM undergraduates concurrently with their chosen major, or as a post-baccalaureate educational certificate program.

Course Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIN 230</td>
<td>Health Aspects of Exercise and Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KIN 320</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KIN 330</td>
<td>Exercise Physiology</td>
<td>4</td>
</tr>
<tr>
<td>KIN 336</td>
<td>Principles in Strength and Conditioning I</td>
<td>3</td>
</tr>
<tr>
<td>KIN 440</td>
<td>Exercise Testing and Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KIN 481</td>
<td>Program Development &amp; Evaluation in Exercise &amp; Fitness</td>
<td>3</td>
</tr>
</tbody>
</table>

NOTE: Program requirements subject to change. Contact the Student Services Office, Merrill 115, for the most current requirements. Completion of this academic program alone does not afford credentials as a "Certified Strength Specialist." Individuals must pass a national certification exam.

Forms for declaring an intention to complete the Strength and Conditioning Certificate are available in the Office of Student Affairs, NWQ Building B, 6th Floor.

Kinesiology Contact: Tracy Oles-Fairchild, Clinical Assistant Professor, Undergraduate Program Coordinator, Enderis Hall, Room 413, (414) 229-6694, teo@uwm.edu.

Study of Complementary & Alternative Medicine

(NOTE: Certificate Program is currently suspended. Please contact the CHS Office of Student...
The focus of this certificate program is to provide an educational foundation regarding the broad use of complementary and alternative practices available to consumers. The purpose of this certificate program, based upon the best scientific research available, is to explore and evaluate the most common forms of complementary and alternative medicine. Through coursework students will be provided: 1) an introduction to the various practices including historic and cultural foundations; 2) review of commonly incorporated practices and scientific research that have investigated the relationship between such practice and health; 3) critical investigation into several of the most popular complementary and alternative self-help therapies and practices including literature reviews to evaluate efficacy of practice; and 4) ethical issues underlying the endorsement and use of “complementary and alternative medicine.”

**COURSE REQUIREMENTS**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMS 260</td>
<td>Introduction to Complementary and Alternative Medicine</td>
<td>3</td>
</tr>
<tr>
<td>KIN 365</td>
<td>Mind-Body Integration and Interventions in Complementary Medicine</td>
<td>3</td>
</tr>
<tr>
<td>KIN 368</td>
<td>Intervention Strategies in Complementary and Alternative Medicine</td>
<td>3</td>
</tr>
<tr>
<td>KIN 400</td>
<td>Ethics and Values in the Health and Fitness Professions</td>
<td>3</td>
</tr>
</tbody>
</table>

In addition, students must complete 3 credits from a select list of courses available from their advisor in the Office of Student Affairs.

**NOTE:** This certificate is not designed to provide students with skills necessary to deliver various practices considered “Complementary and Alternative”. It is designed to provide future practitioners basic scientific knowledge and skills to critically evaluate the current and future use of complementary and alternative medicine.

For more information about this program, contact Tracy Oles-Fairchild, Undergraduate Program Coordinator, at teo@uwm.edu.

**Courses**

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**Kinesiology**

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**Sport & Recreation**

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Web Home Pages:
[ College of Health Sciences ]

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[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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Occupational Studies

The Department of Occupational Science and Technology (OST) offers a 120-credit undergraduate program in the area of occupational studies (OS). The OS undergraduate degree offers a flexible educational path. Combined with a blend of elective courses, a degree in the area of occupational studies may prepare the student to work in different health and human service settings. The OS degree combined with the Therapeutic Recreation (TR) courses offers a viable career path. There is a steady need for Recreational Therapists to assist in the care and prevention of age-related illness and injuries and provide opportunities for individuals with disabilities. It is recommended that students pursue employment under a Certified Therapeutic Recreation Specialist (CTRS) to be eligible to sit for the National Council for Therapeutic Recreation Certification (NCTRC) exam to obtain the professional credential. Additionally, graduates will be particularly well prepared for further graduate study in occupational therapy and other disability-related disciplines.

Admission:
Students interested in the OS undergraduate program are encouraged to contact the College of Health Sciences Office of Student Affairs. Students with bachelor's degrees in other areas are welcome and encouraged to contact Student Affairs for a credit evaluation.

Admission to the Major:
Upon admission to the occupational studies major, students must maintain a 2.75 cumulative GPA. Students may repeat a departmental required course only one time.

Degree Requirements:
Students must achieve the following to complete an undergraduate degree in occupational studies:

1. Satisfactory completion of 120 credits with a cumulative 2.75 GPA or better in all credits earned at UWM. Because a master’s degree is required for professional practice as an occupational therapist, it is recommended that students maintain a GPA greater than 3.0 to be competitive with other Graduate School applicants;
2. Satisfactory completion of the University General Education Requirements; and
3. Completion of the last 30 credits in residence at UWM.

Course of Study:
The program is divided into foundation, core or required, and elective courses. The undergraduate program requires 120 credits for graduation. All students, except second-degree candidates, admitted to the professional program must satisfy University-wide General Education Requirements (GER). English and mathematics competency requirements must also
With 120 credits required to graduate with a bachelor’s degree in Occupational Studies, students need to take responsibility to complete all required courses, GER requirements, and elective credits. A number of GER courses are part of the degree requirements. Some GER courses are available within the Occupational Science and Technology Department programs. See listing below for delineation of GER courses.

Requirements are subject to change. Please check with the Office of Student Affairs for the most current information.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Credit</th>
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<tbody>
<tr>
<td><strong>Foundation Courses</strong></td>
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<tr>
<td><strong>Biological Sciences</strong></td>
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<tr>
<td>BIO SCI 202</td>
<td>Anatomy and Physiology I</td>
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<td>BIOSCI 203</td>
<td>Anatomy and Physiology II (GER NS)</td>
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<td><strong>Biomedical Sciences</strong></td>
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<td>BMS 260</td>
<td>Introduction to Complementary and Alternative Medicine (GER SS)</td>
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<td><strong>Communication</strong></td>
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<td>COMMUN 103</td>
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<td><strong>English</strong></td>
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<td>ENG 205 or</td>
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<td>ENG 207</td>
<td>Health Science Writing (OWC-B)</td>
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<td><strong>Health Care Administration</strong></td>
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<td>HCA 203</td>
<td>Human Life Cycle (GER SS)</td>
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<td><strong>Health Sciences</strong></td>
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<tr>
<td>HS 105</td>
<td>Survey of Health Professions</td>
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<td>HS 222</td>
<td>Language of Medicine</td>
<td>3</td>
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<tr>
<td><strong>Kinesiology</strong></td>
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<tr>
<td>KIN 270</td>
<td>Statistics in Health Professions: Theory and Practice (QL-B)</td>
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<tr>
<td><strong>Mathematical Sciences</strong></td>
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<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry (QL-B)</td>
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<td>PHYSICS 120</td>
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<td>PSYCH 205</td>
<td>Personality (GER SS)</td>
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<td>PSYCH 412</td>
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<td><strong>Total Foundation</strong></td>
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<td><strong>Program Core Courses</strong></td>
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<td>OCCTHPY 290</td>
<td>Foundations of Scientific Inquiry</td>
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<tr>
<td>OCCTHPY 201</td>
<td>Introduction to Occupational Therapy</td>
<td>3</td>
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<tr>
<td>OCCTHPY 245 or THERREC 245</td>
<td>Client Diversity: An Interdisciplinary Perspective (GER CD and SS)</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 260</td>
<td>Enhancing Health Through Activity, Occupation, and Technology</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 401</td>
<td>Overview of Medical Conditions</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 519</td>
<td>Therapeutic Communication (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 540</td>
<td>Evidence for Practice I (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 542</td>
<td>Evidence for Practice II (U/G)</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Core</strong></td>
<td></td>
<td>24</td>
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<tr>
<td><strong>Department Elective Courses</strong></td>
<td></td>
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</tr>
<tr>
<td>OCCTHPY 593</td>
<td>Introduction to Biomedical and Rehabilitation Instrumentation (U/G)</td>
<td>3</td>
</tr>
<tr>
<td>OCCTHPY 595</td>
<td>Vision I: Introduction to Low Vision and Visual Impairment (U/G)</td>
<td>3</td>
</tr>
</tbody>
</table>
OCCTHPY 596  Vision II: Practical Aspects of Visual Impairments and Low Vision  3
OCCTHPY 620  Introduction to Assistive and Rehabilitation Technology (U/G)  3
OCCTHPY 625  Design and Disability (U/G)  3
OCCTHPY 660  Assistive and Rehabilitation Technology (U/G)  3
OCCTHPY 670  Assessment in Assistive Technology and Accessible Design (U/G)  3
OCCTHPY 677  Fieldwork in Assistive Technology (U/G)  3
THERREC 102  Field Experience in Therapeutic Recreation  2
THERREC 103  Introduction to Leisure (GER HU)  3
THERREC 203  Therapeutic Recreation Process  3
THERREC 300  Therapeutic Recreation Assessment and Documentation  4
THERREC 303  Inclusive and Disability Programs in the Community  3
THERREC 308  Therapeutic Recreation in Physical Rehabilitation and Behavioral Health  4
THERREC 310  Facilitation Techniques in Therapeutic Recreation  4
THERREC 400  Issues and Trends in Therapeutic Recreation  3

Total Department Electives  Minimum  21

Free Electives from Campus and GER Courses  28
Total Credits Undergraduate Degree  120

Courses

Occupational Therapy

Web Home Pages:
[ College of Health Sciences ]
[ Occupational Therapy ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Occupational Therapy
[ College of Health Sciences ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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Therapeutic Recreation

Certificate in Therapeutic Recreation

Therapeutic Recreation (TR) is the provision of treatment services and recreation services to persons with illnesses or disabling conditions. The primary purposes of treatment services (also called recreation therapy) are to restore, remediate, or rehabilitate in order to improve functioning and independence. The primary purpose of recreation services is to provide recreation and leisure resources and opportunities to help improve health and well-being and enhance quality of life.

Therapeutic Recreation Specialists may work in hospitals, residential care, long-term care, schools, and a variety of community settings. Individuals served include people with mental, physical, or emotional disabilities. A variety of recreation/leisure activities are employed as tools to help those served attain independence and a high quality of life.

According to the U.S. Department of Labor, "The rapidly growing number of older adults is expected to spur job growth for recreational therapy professionals and paraprofessionals in assisted-living facilities, adult daycare programs, and other social assistance agencies. Continued growth also is expected in community residential care facilities, as well as day care programs for individuals with disabilities." Given the projected need for recreation specialists, the College of Health Sciences at UWM has created a certificate program in Therapeutic Recreation (TR) available to a broad range of individuals, including students and TR and other human service professionals in the community. In addition, individuals who are certified with the National Council for Therapeutic Recreation Certification (NCTRC) may wish to complete certificate coursework to comply with continuing education requirements.

The certificate focuses on the development of knowledge and acquisition of skills and abilities in the areas of health and TR. Courses present the concepts of health, wellness, disease, and illness in relation to quality of life for individuals with disabilities. Specific skill development in the areas of assessment and facilitation techniques is also taught and complemented with an ongoing focus on emerging issues in the field of therapeutic recreation. In preparation for the nationally recognized certification examination, coursework covers topic areas included in the NCTRC Job Analysis categories. The program may be taken by UWM undergraduates concurrently with their chosen major, or as a post-baccalaureate educational certificate program.

Five courses are required to successfully complete a Certificate in Therapeutic Recreation. All five of the courses within the certificate program are offered totally online. A minimum cumulative grade point average of 2.5 must be
maintained on all the required coursework.

**TR Certificate Coursework**

Recommended sequence of coursework

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THERREC 203</td>
<td>Recreation as a Therapeutic Intervention</td>
<td>3</td>
</tr>
<tr>
<td>THERREC 300</td>
<td>Therapeutic Recreation Assessment and Documentation</td>
<td>4</td>
</tr>
<tr>
<td>THERREC 308</td>
<td>Therapeutic Recreation in Physical Rehabilitation and Behavioral Health</td>
<td>4</td>
</tr>
<tr>
<td>THERREC 310</td>
<td>Facilitation Techniques in Therapeutic Recreation</td>
<td>4</td>
</tr>
<tr>
<td>THERREC 400</td>
<td>Therapeutic Recreation Trends</td>
<td>3</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

**Related Programs and Degrees**

Students interested in pursuing a career in Therapeutic Recreation may wish to examine one of the following degree programs at UWM:

- **Bachelor of Art**
  - Psychology
  - Sociology

- **Bachelor of Science**
  - Biological Sciences
  - Nursing
  - Occupational Studies
  - Social Work

**Notes:**

- Completion of this certificate program partially fulfills the academic coursework requirements for the NCTRC Certified Therapeutic Recreation Specialist credential. Additional requirements are needed to fully qualify for the credential.
- Students interested in obtaining NCTRC certification are encouraged to visit the NCTRC website at [www.nctrc.org](http://www.nctrc.org)

For more information about the certificate program, contact Patricia Thomas, TR Certificate Coordinator, at (414) 229-2507 or pthomas@uwm.edu.

**Courses**
Africology

- Web Home Pages:
  - College of Letters & Science
  - Africology
- Course of Study: Major
- Course of Study: Minor
- Courses: Africology (AFRICOL)
- Faculty

Africology is the discipline that scrutinizes the life histories and prospects of peoples of primary African origin. Employing both methods and techniques of scientific inquiry as well as the logic of normative discourse, it describes, explains, evaluates, and predicts ranges of phenomena that ground its subject matter. The major in Africology thus is designed to educate students in the best traditions of the liberal arts and sciences, providing them with a sound knowledge of the past, present, and future roles of peoples of primary African origin in the structuring of life in diverse societies. The department’s courses are designed to satisfy the needs of at least three groups of students: those who desire to specialize in Africology, those whose career objectives make it desirable to have knowledge of the Afroworld, and those who seek to broaden the scope of their education in the liberal arts and sciences.

Students thinking of majoring or minoring in Africology are encouraged to go to the department office in Mitchell Hall 214 for assistance.

Course of Study: Major

All majors must be accepted by the department, and their programs must be arranged with a departmental advisor. To be retained as majors, students must maintain a GPA of 2.5 or better in Africology courses attempted at UWM. In addition, students must attain a 2.5 GPA in all major courses attempted, including any transfer work. A total of 36 credits is required to complete the major; 15 credits at the 300 level or above must be taken in residence at UWM.

Prospective majors must take the following courses:

AFRICOL 215 Introduction to Black Social and Cultural Traditions 3
AFRICOL 220 Introduction to Statistics in Africology 3
(With the approval of the department, the statistics requirement may be satisfied with another statistics course.)
AFRICOL 222 Research Methods in Africology 3
AFRICOL228 Introduction to Black Political Economy 3
Africology 100 is highly recommended. Though not required, 100-level courses prepare students for higher-level Africology courses, and they do not count toward the required 36 credit total.

An additional 24 credits are required. To satisfy the L&S research requirement, students must complete Africol 329 or 352 or 3 credits in Africol 699, "Independent Study," which involve completion of a research experience designed according to departmental standards.
Majors specialize in one of two options: political economy or culture and society.

**Option A: Political Economy.** A minimum of 24 credits; six may be taken from option B, and at least 15 must be taken at or above the 300 level.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>AFRICOL 2351</td>
<td>African Americans and South Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 300</td>
<td>Urban Violence</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 322</td>
<td>Order and Disorder: The Quest for Social Justice</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 323</td>
<td>Capitalism, Socialism, Nationalism, and Fascism</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 325</td>
<td>Political Economy of Africa/China Relations</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 329</td>
<td>Economic Growth and Sustainable Development in Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 334</td>
<td>Survey of Black American and Black Brazilian Societies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Option B: Culture and Society.** A minimum of 24 credits; 6 may be taken from option A, and at least 15 must be taken at or above the 300 level.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AFRICOL 205</td>
<td>The Poetry of African, African-American, and Caribbean Writers</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 210</td>
<td>The African-American Novel</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 232</td>
<td>Survey of African Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 2351</td>
<td>African Americans and South Africa</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 250</td>
<td>Black Women and White Women in the Contemporary United States</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 261</td>
<td>Survey of African-American Political Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 265</td>
<td>Psychological Effects of Racism</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 311</td>
<td>African Religious Thought and Social Organizations</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 312</td>
<td>The Church in African-American Life</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 314</td>
<td>The School in African-American Life</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 319</td>
<td>History of Blacks in the American City</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 334 (234)1</td>
<td>Survey of Black American and Black Brazilian Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 350</td>
<td>The Black Family</td>
<td>3</td>
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<tr>
<td>AFRICOL 351</td>
<td>Sex, Marriage, and Health Care in the Afroworld</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 352</td>
<td>Extended Families in Black Societies</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 369</td>
<td>Mass Media and Black Self-Images</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 372</td>
<td>African-American Literary Movements: The Harlem Renaissance</td>
<td>3</td>
</tr>
<tr>
<td>AFRICOL 3811</td>
<td>Honors Seminar: (Subtitle)</td>
<td>3H</td>
</tr>
<tr>
<td>AFRICOL 4111</td>
<td>Change in African-American Communities</td>
<td>3</td>
</tr>
</tbody>
</table>
Course of Study: Minor

The purpose of the minor is to expose to students a range of concepts, theories, and phenomena that ground the discipline of Africology. Students are required to take 18 credits, of which at least 12 must be upper-division credits (300 level or above); of these upper-division credits, at least 6 must be from courses satisfying option A of the major in Africology and at least 6 must be from courses satisfying option B of the Africology major. Nine credits at the 300 level or above must be taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

Courses (AFRICOL)

Crosslisted Courses

The following courses offered by other departments may be used to satisfy the requirements of the undergraduate major or minor in Africology.

ENGLISH 381 World Literatures Written in English: “African Fiction” Subtitle
ENGLISH 517 Studies in African-American Literature: (subtitle)
ENGLISH 631 Seminar in African-American Literature: (subtitle)
FILM 301 Conversations with Filmmakers and Critics: “Radical Black Film” subtitle
PORTUGS 225 Understanding Brazil: “African Presence in Brazilian Culture and Literature” subtitle

Faculty and Staff

Osei-Mensah Aborampah, Prof. Emeritus, PhD

Peter Akubeze
Senior Information Processing Consultant

George Barganier, Asst. Prof., PhD
University of California, Berkeley

Patrick Bellegarde-Smith, Prof. Emeritus, PhD

Abera Gelan, Assoc. Prof., PhD
University of Wisconsin-Milwaukee

Sandra E. Jones, Asst. Prof., PhD
University of Wisconsin-Milwaukee

Joyce F. Kirk, Assoc. Prof. Emerita, PhD

Nolan Kopkin, Asst. Prof., PhD
Cornell University
College of Letters & Science

American Indian Studies

Cary Miller, Associate Professor in History
NWQ-B 4410, (414) 229-6251, carym@uwm.edu

The American Indian Studies Program offers an undergraduate major through the Committee Interdisciplinary Major and an undergraduate certificate in American Indian Studies. For information on the American Indian Studies Certificate, see the L&S Certificate Programs section of this catalog.

The major in American Indian Studies provides the opportunity for students to explore scholarship on American Indian peoples with an interdisciplinary lens. The curriculum develops the depth of students’ experience with the methodologies and sources used in the field of American Indian Studies. Although interdisciplinary, American Indian Studies encompasses a distinct body of knowledge. Students majoring in American Indian Studies can select from a wide variety of courses organized under three areas: Culture and Creative Expression; History, Law, and Government; and Education and Community Policy Studies.

The major curriculum is developed around a core of 15 credits that includes an introduction to the field, two focus courses, and six credits in research and practice. The focus courses are designed to ensure that students accomplish study in major areas related to the experience of American Indian tribal societies and communities. Beyond that, students are encouraged to shape their own programs to meet individual needs and interests through the required field/research capstone project and the selection of elective courses. The capstone research topic will be focused on a student’s particular interest area and will begin in the junior year. The project will be approved and supervised by a faculty member who will guide the student’s research, service project, or applied project through to formal evaluation by a committee of faculty members. A formal field project paper will be presented to the committee.

Course of Study: Major

The CIM submajor in American Indian Studies requires completion of 33 credits in approved American Indian Studies and American Indian Studies-related courses. Of these 33 credits, 15 credits in advanced-level courses numbered (300 and above) must be completed in residence at UWM. The College of Letters & Science requires that students earn at least a 2.500 GPA on all credits attempted for the major at UWM. In addition, a 2.500 GPA on all major credits, including any transfer work, is required.

Required Core Courses, 18 cr.

Introduction, 3 cr.

AIS 101 Introduction to American Indian Studies 3

Focus Courses, 6 cr.

AIS/ENGLISH 525 American Indian Literature, Culture, and Creative Arts, U/G 3
AIS/HIST 475 American Indian History, Law, and Government, U/G 3

Research and Practice, 6 cr.
Elective Courses, 18 cr.

Students must select from the following jointly offered or cross-listed courses:

American Indian Studies Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>AIS 105</td>
<td>Great Lakes American Indian Ethnobotany</td>
<td>3</td>
</tr>
<tr>
<td>AIS 151</td>
<td>First Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
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<tr>
<td>AIS 152</td>
<td>Second Semester Anishinaabemowin (Ojibwe)</td>
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<tr>
<td>AIS 203</td>
<td>Western Great Lakes Indian Community Life of the Past</td>
<td>3</td>
</tr>
<tr>
<td>AIS 251</td>
<td>Third Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
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<tr>
<td>AIS 252</td>
<td>Fourth Semester Anishinaabemowin (Ojibwe)</td>
<td>4</td>
</tr>
<tr>
<td>AIS 360</td>
<td>Ezhi-Kinomaageying: Anishinaabe Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>AIS 370</td>
<td>Anishinaabebiige: Archival to Contemporary Writing</td>
<td>3</td>
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Jointly Offered Courses

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<th>Credits</th>
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<tr>
<td>AIS/ANTHRO 213</td>
<td>American Indian Peoples of Wisconsin</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 262</td>
<td>American Indian History to 1887</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 263</td>
<td>American Indian History 1887 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 276</td>
<td>Introduction to American Indian Literature</td>
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</tr>
<tr>
<td>AIS/ANTHRO 308</td>
<td>Archaeology of North America</td>
<td>3</td>
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<tr>
<td>AIS/ANTHRO 309</td>
<td>Archaeology of Central and South America</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 310</td>
<td>Archaeology of Middle America</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 311</td>
<td>The World of the Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 314</td>
<td>American Indian Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 315</td>
<td>Peoples and Cultures of Mexico and Central America</td>
<td>3</td>
</tr>
<tr>
<td>AIS/SOCIOL 320</td>
<td>Social Change in American Indian Societies</td>
<td>3</td>
</tr>
<tr>
<td>AIS/SOCIOL 321</td>
<td>Contemporary Issues of the American Indian</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ANTHRO 362</td>
<td>Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 372</td>
<td>Survey of American Indian Literature</td>
<td>3</td>
</tr>
<tr>
<td>AIS/HIST 473</td>
<td>Wisconsin Indian History</td>
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</tr>
<tr>
<td>AIS/HIST 474</td>
<td>Topics in American Indian History</td>
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</tr>
<tr>
<td>AIS/ENGLISH 520</td>
<td>Studies in American Indian Literature</td>
<td>3</td>
</tr>
<tr>
<td>AIS/ENGLISH 632</td>
<td>Seminar in American Indian Literature, U/G</td>
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Cross-Listed Courses

<table>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ED POL 561</td>
<td>Education Issues in American Indian Communities</td>
<td>3</td>
</tr>
<tr>
<td>ED POL 621</td>
<td>History of Native Education and Policy Development</td>
<td>3</td>
</tr>
<tr>
<td>ETHNIC 350</td>
<td>Advanced Topics in Comparative Ethnic Studies: “Conversational Ojibwe”</td>
<td>3</td>
</tr>
</tbody>
</table>

FACULTY

Kimberly M. Blaeser, Prof., PhD
University of Notre Dame

Margaret Noodin, Asst. Prof., PhD
University of Minnesota

Courses

American Indian Studies (AIS)
Anthropology

Anthropology is the study of human beings and their cultures, past and present, throughout the world. The discipline examines and compares the world’s culture patterns in all their variety and studies humans as biological organisms. Through archaeology, it attempts to shed light on the long history and evolution of humans and their ways of life. In these pursuits, anthropologists favor comparative and evolutionary perspectives. As a result, anthropological studies are wide-ranging with respect to topic and far-reaching with respect to both space and time.

A major in anthropology serves the needs of at least three kinds of students: 1) those who seek as part of their liberal arts education to gain a broad understanding of human behavior, 2) those whose professional or career interests require insight into otherwise unfamiliar peoples and cultures, and 3) those who wish to specialize in anthropology or one of its subfields.

A major in anthropology provides a useful and relevant foundation for many kinds of jobs and career interests. These include numerous types of positions abroad working with people of varied cultural backgrounds, such as community development work in the international field, foreign diplomatic service, international business, and international exchange programs. They also include positions in museum work, the communications field, community cultural projects, urban planning, and other social professions. There are opportunities for students majoring in anthropology to develop skills in conservation archaeology and environmental impact assessment.

Course of Study: Major

Students majoring in anthropology can select from a wide variety of courses organized under four subfields: cultural anthropology, archaeology, physical (or biological) anthropology, and linguistic anthropology. Although majors take some coursework in each of the four subfields, they are encouraged to shape their own programs to meet individual needs and interests.

The major in anthropology requires 36 credits within the department, including Anthro 101, 102, 103, 105 (360), and one course from each of the five curriculum categories below. At least 15 credits in advanced-level courses (numbered 300 or above) must be taken in residence at UWM.

The College requires that all students complete a research experience in their majors. Anthropology majors will complete the research requirement in the context of one of the following courses:

Anthro 401 Primate Populations
Anthro 497 Study Abroad: "Peru, Past and Present - Archaeological Perspective" subtitle
Anthro 525 Zooarchaeology: Analysis of Faunal Remains
Anthro 535 Analysis of Archaeological Ceramics
Anthro 560 Introduction to Research Methods in Anthropology
Anthro 566 Archaeological Analysis and Report Preparation: (Subtitle)

Finally, Anthro 460, "Anthropology Theory," which is the program’s capstone course, is required for all students majoring in anthropology. Only seniors may enroll, and it is recommended that they do so after having completed all other anthropology course requirements.

Students majoring in anthropology must earn a GPA of 2.5 or better in anthropology courses attempted at UWM. In addition, the College requires that students attain a 2.5 or better GPA in all anthropology courses attempted, including any transfer work.

**CURRICULUM CATEGORIES**

**Physical Anthropology**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Anthro 301</td>
<td>Human Evolution and Variation</td>
<td>4</td>
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<tr>
<td>Anthro 401</td>
<td>Primate Populations</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 402</td>
<td>Primate Evolution</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 403</td>
<td>The Human Skeleton</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 404</td>
<td>Seminar in Human Evolutionary Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 405</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 406</td>
<td>Evolutionary Biology and Human Diseases</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 407</td>
<td>Neuroanthropology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 408</td>
<td>Hormones and Behavior</td>
<td>3</td>
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<tr>
<td>Anthro 651</td>
<td>Biology of the Primates</td>
<td>3</td>
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</table>

**Archaeology**

<table>
<thead>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Anthro 304</td>
<td>Violence and Warfare in Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 305</td>
<td>The Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 306</td>
<td>European Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 307</td>
<td>World Archaeology: Foundations of Civilization</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 308</td>
<td>Archaeology of North America</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 309</td>
<td>Archaeology of Central and South America</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 310</td>
<td>Archaeology of Middle America</td>
<td>3</td>
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<tr>
<td>Anthro 311</td>
<td>The World of the Ancient Maya</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 420</td>
<td>Power and Ideology in Archaeology</td>
<td>3</td>
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<tr>
<td>Anthro 421</td>
<td>Cities in the Ancient World</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 425</td>
<td>Hunter-Gatherer Lifeways: Past and Present</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 465</td>
<td>Historic Preservation in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 466</td>
<td>Historical Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 501</td>
<td>Archaeology of Death</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 525</td>
<td>Zooarchaeology: Analysis of Faunal Remains</td>
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<tr>
<td>Anthro 535</td>
<td>Analysis of Archaeological Ceramics</td>
<td>3</td>
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<tr>
<td>Anthro 565</td>
<td>Seminar in Regional Archaeology: (Subtitle)</td>
<td>3</td>
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<tr>
<td>Anthro 636</td>
<td>Geochronology</td>
<td>3</td>
</tr>
</tbody>
</table>

**Ethnology and Related Sociocultural Subjects**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthro 302</td>
<td>Anthropology and Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 314</td>
<td>American Indian Societies and Cultures</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 315</td>
<td>Peoples and Cultures of Mexico and Central America</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 320</td>
<td>Peoples and Cultures of Africa</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 322</td>
<td>Europe in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 325</td>
<td>Japanese Culture and Society</td>
<td>3</td>
</tr>
</tbody>
</table>
Anthro 326  Peoples and Cultures of South Asia  3
Anthro 328  Comparative Studies of Music, Race, and Gender in Nationalism  3
Anthro 335  American Indians of the Southeast  3
Anthro 340  Cultures of Online Games and Virtual Worlds  3
Anthro 349  Seminar in Ethnography and Cultural Processes  3
Anthro 351  Anthropological Theories of Religion  3
Anthro 354  Anthropology of Art  3
Anthro 355  Globalization, Culture, and Environment  3
Anthro 400  Human Sociobiology  3
Anthro 431  Urban Anthropology  3
Anthro 440  Medical Anthropology  3
Anthro 441  Nature, Knowledge, and Technoscience in Anthropological Perspective  3
Anthro 442  Humanitarianism in Global Perspective  3
Anthro 443  Medicine and Pharmaceuticals in the Global Age  3
Anthro 445  Psychological Anthropology  3
Anthro 446  The Child in Different Cultures  3
Anthro 447  The Global Politics of Human Rights  3
Anthro 448  Cultural and Human Ecology  3
Anthro 449  The Human Economy  3
Anthro 450  Political Anthropology  3
Anthro 540  Applications of Anthropology  3
Anthro 543  Cross-Cultural Study of Religion  3
Anthro 544  Religious Giving in Anthropological Perspective  3

Linguistic Anthropology

Anthro 361  Applications in Linguistic Anthropology  3
Anthro 362  System Failure: Globalization and Language Extinction  3
Anthro 366  Seminar in Aspects of Linguistic Anthropology  3
Anthro 570  Issues in Bilingualism  3

Methods Courses

Anthro 560  Introduction to Research Methods in Anthropology  3
Anthro 561  Techniques and Problems in Ethnography  3
Anthro 562  Techniques and Problems in Archaeology  3
Anthro 566  Archaeological Analysis and Report Preparation: (Subtitle)  3 or 6
Anthro 567  Archaeological Field School  3 or 6
Anthro 568  Introduction to Anthropological Statistics  3

Course of Study: Minor

The anthropology minor requires 18 credits within the department, including Anthro 101, 102, and one course from each of the following curriculum categories: physical anthropology, archaeology, ethnology, and linguistics. Waiver or substitution in any of these categories may be approved, in some circumstances, by the assistant to the chair for undergraduate affairs in consultation with the student’s advisor. Students must earn 9 credits in advanced-level courses (numbered 300 or above) taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

Related Programs

For the teaching major in the broad field of social studies, see the School of Education section. A related interdepartmental major is the international studies major. Also related are the certificate programs in American Indian Studies and in Latin American and Caribbean Studies.
Courses (ANTHRO)

Faculty

Cheryl Ajirrotutu, Assoc. Prof., PhD
University of California, Berkeley

**Fred Anapol, Prof., PhD**
State University of New York at Stony Brook

Kalman Applbaum, Prof., PhD
Harvard University

Bettina Arnold, Prof., PhD
Harvard University

**Erica Bornstein, Assoc. Prof., PhD**
University of California, Irvine

Paul Brodwin, Prof., PhD
Harvard University

Benjamin Campbell, Assoc. Prof., PhD
Harvard University

**J. Patrick Gray, Prof., PhD**
University of Colorado

Sidney M. Greenfield, Prof. Emeritus, PhD

Tracey Heatherington, Assoc. Prof., PhD
Harvard University

Jean Hudson, Assoc. Prof., PhD
University of California, Santa Barbara

Robert J. Jeske, Prof., PhD
Northwestern University

Ingrid Jordt, Assoc. Prof., PhD
Harvard University

Donald Kurtz, Prof. Emeritus, PhD

**Thomas Malaby, Assoc. Prof., PhD, Chair**
Harvard University

Bernard Perley, Assoc. Prof., PhD
Harvard University

R. Jason Sherman, Assoc. Prof., PhD
University of Michigan - Ann Arbor

Neil C. Tappen, Prof. Emeritus, PhD

Trudy R. Turner, Prof., PhD
The history of art is the study of humanity’s efforts to express its ideas, experiences, and beliefs in visual and graphic form: in painting, sculpture, architecture, graphic art, design, film, and performance arts. It also is the historical study of the attempt to reorder the physical environment through urban and architectural planning. Courses in the Department of Art History are designed to train students to deal with such studies in the context of the cultural, social, political, economic, and religious climates of different historical eras, as well as to foster an understanding of the specific development, materials, theory, and parameters of art. Internships and colloquia in museum studies afford qualified students more specialized experience in connoisseurship, curatorial practices, and arts management.

Questions concerning art history requirements, possible substitutions, and other related matters should be directed to the undergraduate advisor or the Art History Department office, Mitchell Hall, Room 151, (414) 229-4330.

Course of Study: Major

The major in art history and criticism consists of 30 credits in the department. All majors must complete 6 credits in ARTHIST 101 and 102, and they are advised strongly to take 3 credits in Arthist 104 or 105. In addition, all majors must complete one of the following to satisfy the L&S research requirement:

• 3 credits in an internship (ARTHIST 489 or 691); or
• 3 credits in an independent study (ARTHIST 699) approved and supervised by an art history faculty member; or
• 3 credits in the art history seminar (ARTHIST 501) during their junior or senior year with permission from the instructor; or
• 3 credits in a graduate seminar, if the student is well-qualified and receives permission from the instructor.

Beyond this, each student must select one of two major options: option A, the standard major, or option B, the broad major. A minimum 2.5 GPA is required in all ARTHIST courses attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Fifteen credits at the 300 level or above must be taken in residence at UWM.

Option A: Standard Major. This option is recommended for students who are interested in obtaining a well-balanced approach to the study of art history. It provides an introduction to most major areas of inquiry in art history and to different scholarly approaches to study in this field. It is recommended especially for students who wish to continue into graduate studies in art history and to pursue careers in college teaching or museum or gallery work.

1. Distribution requirement, 15 credits. At least 3 credits each in five of the following areas: Ancient, Medieval,
Renaissance-Baroque, 19th-20th Century, Non-Western, Film. At least 9 of the 15 credits must be at the 300 level or above.

2. Electives, 9 credits. At least 6 of these 9 credits must be at the 300 level or above.

3. Language requirement. Reading ability in at least one foreign language, preferably French or German, to be demonstrated either by taking two years of college-level language with grades of B or better or by taking and passing a reading exam administered by the Art History Department. Students planning to go to graduate school are advised that most graduate schools require PhD candidates to demonstrate reading knowledge of both French and German. Other languages such as Italian, Spanish, Dutch, Greek, or Latin also may be required, depending on a student’s field of specialization.

Option B: Broad Major. This option is designed for students who wish to tailor their own programs of study to pursue specific individual interests in art history, to tie in with studies in other fields (e.g., double majors), or for personal enrichment. It requires at least 24 credits of the student’s choice in ARTHIST courses beyond 101 and 102, of which at least 15 must be at the 300 level or above.

Course of Study: Minor

The minor in art history must be declared between completing 15 and 75 degree credits. It requires at least 18 credits in the department, including ARTHIST 101 and 102. Nine of the remaining 12 credits must be taken at the 300 level or above in residence at UWM. A minimum 2.5 GPA must be maintained in all ARTHIST courses attempted at UWM. In addition, students must attain a 2.5 GPA in all minor credits attempted, including any transfer work.

Course of Study: Online Major/Minor

The Department of Art History offers online both the major and minor. The online minor in art history became available during spring 2010 with the development of online versions of both ARTHIST 101 and 102. Since then, tenured/tenure-track and qualified adjunct faculty members have created approximately 15 different online courses. The department's online offerings represent a wide range of levels from broad surveys at the 100/200 level (which do not require prerequisites) to upper-division courses at the 300/400 level. The variety of courses provides the necessary range of distribution (both in terms of chronology and geography) required by the department's standard major.

Courses in Other Fields

It is recommended strongly that all students majoring in art history and criticism acquire a broad liberal arts education, including strong competence in English composition, a knowledge of one or more foreign languages, and at least 12 credits of college-level history. Students also are encouraged to take work in related subjects such as art studio, classics, anthropology, history of music, literature, and philosophy.

Honors in the Major

Art history majors who meet the following criteria are awarded honors in the major:

1. 3.00 cumulative GPA in all UWM graded credits;
2. 3.50 GPA in all credits that count toward the major;
3. 3.50 GPA in all advanced credits that count toward the major;
4. Completion of one of the following:
   a. Six credits of French or German at the 200 level or above with grades of B or better (equivalent level coursework in another language may be substituted with faculty approval);
b. The Art History Department's French or German translation exam with passing grade;

5. Completion of one of the following:

a. Seminar or colloquium in ARTHIST with grade of B+ or better;

b. Independent research project (ARTHIST 699) with grade of B+ or better.

Courses
Art History (ARTHIST)

Faculty

Derek Counts, Prof., PhD, Chair
Brown University

Elena Gorfinkel, Asst. Prof., PhD
New York University

Jennifer Johung, Assoc. Prof., PhD
University of California, Berkeley

Richard Leson, Assoc. Prof., PhD
The Johns Hopkins University

Tanya Tiffany, Assoc. Prof., PhD
The Johns Hopkins University

Ying Wang, Assoc. Prof., PhD
University of Pittsburgh

Academic Curator

Linda Brazeau, PhD
City University of New York

Emeriti

Kenneth P. Bendiner, Prof. Emeritus, PhD

Nancy Hubbard, Assoc. Prof. Emerita, PhD

Patricia Mellencamp, Distinguished Prof. Emerita, MA

Paul E. Sprague, Prof. Emeritus, PhD

Jane C. Waldbaum, Prof. Emerita, PhD

Web Home Pages:
[ College of Letters & Science ]
[ Art History ]
Biology is the study of life. Biologists analyze organisms at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions of organisms with each other and with the environment using behavior, morphology, and genetics. These studies have applications across many areas including agriculture, medicine, and the environment.

Majors in biology are needed in areas such as farming, food processing, bioremediation, as well as the biomedical and biotechnology fields. A biology major also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, in addition to advanced studies in the life science field.

The Department offers two majors: biological sciences and microbiology. The biological sciences major has two options: the Standard option and the Cell and Molecular Biology option. Both majors and options are excellent preparation for a career in a life science field. The multiple offerings allow students a broad choice in their studies.

**Course of Study: Biological Sciences Major**

The biological sciences major requires a minimum of 34 credits in biology, of which 26 must be at the advanced (300 and above) level. At least 15 of the advanced credits must be taken in residence at UWM. Students must complete four laboratory courses. No more than 8 credits in 100-level courses in biological sciences may be applied toward the major, and students may not combine 150, 202, and 203 for more than 9 credits toward the major. A combined limit of 6 cr. in Bio Sci 290, 695, 697, 698, and 699 counts toward the major. Students must attain an average GPA of 2.5 in biological sciences courses attempted at UWM. In addition, students must attain at least a 2.5 GPA in all major credits attempted, including any transfer work.

Additionally, Math 211, 221, or 231 for a Bachelor of Science (Math 105 or equivalent for a Bachelor of Arts), Physics 120 and 122 or equivalent, one semester of physics lab (121 or above), and either the survey of organic chemistry with lab (Chem 341, 342) or the one-year organic chemistry sequence with one lab (Chem 343, 344, 345) are required. For students in the cell and molecular biology option, Chem 343, 344, and 345 are required, and Physics 123 is strongly recommended. Students who plan to attend graduate or professional schools are advised strongly to take the one-year sequence of organic chemistry with lab, a course in biochemistry, and two semesters of calculus.

**STANDARD BIOLOGICAL SCIENCES OPTION**

**Required Biological Sciences Courses**
BIO SCI 150  Foundations of Biological Sciences I  4
BIO SCI 152  Foundations of Biological Sciences II  4
BIO SCI 325  Genetics  3

Either:
BIO SCI 310  General Ecology  4
or both
BIO SCI 315  Cell Biology  3
BIO SCI 316  Laboratory in Genetics and Cell Biology  2

Research Requirement: One of BIO SCI 611, 670, 671, 672, or CES 490 (a senior seminar); HONORS 686, 687, or 689 (Honors research, project, or thesis); or Bio SCI 697, 698, or 699 (independent study).

Electives to reach a total of 26 upper-division (numbered 300 and above) credits and one additional laboratory course.

CELL AND MOLECULAR BIOLOGY OPTION

Core Courses

BIO SCI 150  Foundations of Biological Sciences I  4
BIO SCI 152  Foundations of Biological Sciences II  4
BIO SCI 315  Cell Biology  3
BIO SCI 316  Laboratory in Genetics and Cell Biology  2
BIO SCI 325  Genetics  3

Laboratory Courses: At least one Cell and Molecular Biology laboratory numbered above 350 or BIO SCI 203. See individual course descriptions to identify eligible courses.

Electives: Any U-only Cell and Molecular Biology course numbered between 350 and 399.

Any U/G Cell and Molecular Biology course numbered 400 or above.

Research Requirement: Either BIO SCI 672 (Undergraduate Seminar in Cell and Molecular Biology) or 697 (Independent Study in Cell and Molecular Biology).

Students must select additional Cell and Molecular Biology courses to reach a total of 18 credits beyond the core courses and a total of 26 upper-division (numbered 300 and above) credits.

Course of Study: Microbiology Major

Microbiology is the study of microorganisms such as bacteria, archaea, protists, fungi, and viruses. The major in microbiology requires a minimum of 35 credits in microbiology; the required and elective courses in Bio Sci, Chem 501, and C L Sci 534, 535, 539, and 540 count as "microbiology" courses for this purpose. At least 15 credits of advanced (300 and above) microbiology courses must be taken in residence at UWM. A combined limit of 6 cr. in Bio Sci 290, 695, 697, 698, and 699 counts toward the major. Students must attain an average GPA of 2.5 in microbiology courses attempted at UWM. In addition, students must attain a 2.5 GPA in all major credits attempted, including any transfer work. The following courses are required:

Required Microbiology Courses

BIO SCI 150  Foundations of Biological Sciences I  4
BIO SCI 152  Foundations of Biological Sciences II  4
BIO SCI 315  Cell Biology  3
BIO SCI 325  Genetics  3
BIO SCI 383  General Microbiology  4
BIO SCI 529  Molecular Biology of Microorganisms  3
BIO SCI 540  Microbial Diversity and Physiology  3
BIO SCI 580  or Experimental Microbiology  4
BIO SCI 539  Laboratory Techniques in Molecular Biology  4
**Research Requirement:** BIO SCI 495, 671, 698 or, when determined by the student's microbiology faculty advisor to have microbiology content, BIO SCI 699, or HONORS 686, 687, or 689. (For titles and credits, see electives list.)

**Elective Microbiology Courses:** Students must take a minimum of 6 credits from among the following courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 316</td>
<td>Laboratory in Genetics and Cell Biology</td>
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</tr>
<tr>
<td>BIO SCI 401</td>
<td>Immunology</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 402</td>
<td>Immunological Techniques</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 405</td>
<td>General Virology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 425</td>
<td>Plankton Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 490 (660)</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 495</td>
<td>Internship in Biotechnology, Upper Division(^1)</td>
<td>3-6</td>
</tr>
<tr>
<td>BIO SCI 536</td>
<td>Applied Microbiology and Biotechnology</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 539</td>
<td>Laboratory Techniques in Molecular Biology (if not selected above)</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 542</td>
<td>Biological Electron Microscopy</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 544</td>
<td>Transmission Electron Microscopy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 572</td>
<td>Genomics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 573</td>
<td>Cellular Evolution</td>
<td>3</td>
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<tr>
<td>BIO SCI 580</td>
<td>Experimental Microbiology (if not selected above)</td>
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<tr>
<td>BIO SCI 595</td>
<td>Principles of Genetic and Molecular Engineering</td>
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<td>BIO SCI 607</td>
<td>Environmental Microbiology</td>
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<td>BIO SCI 667</td>
<td>Advanced Techniques in Microbial, Molecular, and Cellular Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 671</td>
<td>Undergraduate Seminar in Microbiology: (Subtitle) (may not count for more than 1 of the elective credits)</td>
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<tr>
<td>BIO SCI 698</td>
<td>Independent Study in Microbiology</td>
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<tr>
<td>BIO SCI 699</td>
<td>Independent Study(^1)</td>
<td>1-3</td>
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<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry (if not selected above)</td>
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<tr>
<td>CHEM 601</td>
<td>Biochemistry: Protein Structure and Function</td>
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</tr>
<tr>
<td>BMS 534</td>
<td>Medical Microbiology(^2)</td>
<td>2</td>
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<tr>
<td>BMS 535</td>
<td>Medical Microbiology Laboratory(^2)</td>
<td>2</td>
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<tr>
<td>BMS 539</td>
<td>Public Health Microbiology(^2)</td>
<td>2</td>
</tr>
<tr>
<td>BMS 540</td>
<td>Public Health Microbiology Laboratory(^2)</td>
<td>1</td>
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<tr>
<td>HONORS 686</td>
<td>Research in Honors(^1)</td>
<td>2-3</td>
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<tr>
<td>HONORS 687</td>
<td>Senior Honors Project(^1)</td>
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<tr>
<td>HONORS 689</td>
<td>Senior Honors Thesis(^1)</td>
<td>3</td>
</tr>
</tbody>
</table>

\(^1\) Only Bio Sci 699 or Honors 686, 687, or 689 projects that are determined by the student's microbiology faculty advisor to have microbiology content count toward the major.

\(^2\) Students may elect to take these BMS courses to earn credit toward the microbiology major option provided that they earn 30 credits in Natural Sciences within the College of Letters & Science, as required for the BS degree.

**Other Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
</tbody>
</table>
MATH 211 or Survey in Calculus and Analytic Geometry 4
MATH 221 or Honors Calculus I 5
MATH 231 Calculus and Analytical Geometry 4

One of the following sets of three physics courses:

PHYSICS 120 General Physics I (Non-calculus Treatment) 4
PHYSICS 122 General Physics II (Non-calculus Treatment) 4
PHYSICS 123 General Physics Laboratory II (Non-calculus Treatment) 1
or
PHYSICS 209 Physics I (Calculus Treatment) 4
PHYSICS 210 Physics II (Calculus Treatment) 4
PHYSICS 215 Lab Physics II (Calculus Treatment) 1

Prospective microbiology majors should consult with a faculty advisor as early as possible, preferably before the beginning of the junior year, in order to outline an appropriate course of study. A list of faculty advisors in microbiology is available in the Biological Sciences Department office or on the department's home page (www4.uwm.edu/letsci/biologicalsciences/). Students should consult their advisor at least once each semester.

Honors in the Major

Students in biological sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.5 cumulative GPA in all UWM graded credits;
2. 3.75 GPA in UWM courses counting toward the major; and
3. Complete a laboratory or field research independent study (Bio Sci 697, 698, or 699) or internship (Bio Sci 489 or CES 489).

Students who believe they may qualify for honors in biological sciences should apply to the Department during their last semester of study.

Course of Study: Minor

Students with a major in another discipline can apply for a minor in biological sciences by meeting the requirements listed below, completing the appropriate “Declaration of Minor” form, and meeting with a Department of Biological Sciences advisor.

Requirements: The minor consists of 19 credits in biological sciences including 150 and 152 (or equivalent). The 11 additional credits must be in courses that carry credit toward the major. At least 9 credits must be taken at or above the 300 level in residence at UWM and at least one course must be a laboratory course at the 300 level or above. Students must maintain an average GPA of 2.5 in minor courses attempted at UWM. In addition, students must attain a 2.5 GPA in all minor courses attempted, including any transfer work.

Declaration of Major or Minor in Biological Sciences

Students should contact an advisor (See list below.) as soon as possible in their freshman year about required courses and the recommended course sequence within biological sciences. They should complete Bio Sci 150 and 152, Chem 102 and 104, and Math 105 before officially declaring a major in biological sciences. Upon declaring the major, the student must select from the list below a Department of Biological Sciences faculty advisor who will guide the student in planning his/her curriculum and will help the student accomplish his/her goals. **Failure to complete the declaration of major, as recommended, may result in a delay in graduation.**

Procedure for Processing a Declaration of Major or Minor:
1. Obtain and complete a “Declaration of Major (or Minor) Form” from the Department of Biological Sciences office (Lapham Hall S181).

2. Select a departmental advisor in the area of interest (See list below.) and set up an advising appointment by sending an email to the prospective advisor as follows:

* The “subject box” of the email should say “ Appointment to Declare Major (or Minor).”

* The text of the message should give days and times the student is available to meet for advice about the major/minor and curriculum. Take the “Declaration of Major/Minor Form” and an up-to-date student copy transcript to the advising appointment at which the advisor will sign the form. After this initial meeting, return to meet with the departmental advisor regularly to discuss academic progress.

3. Return the “Declaration of Major/Minor Form,” with the advisor’s signature, to Lapham Hall S181 to obtain the Department Chair’s signature. The Chair will forward the form to the College of Letters & Science Office of Student Academic Services.

4. Meet each semester with the assigned College of Letters & Science advisor (in Holton Hall); the L&S advisor will monitor progress towards completion of the L&S degree requirements.

### Department Advisors

<table>
<thead>
<tr>
<th>Biological Sciences Advisors</th>
<th>Lapham Office</th>
<th>E-mail (@uwm.edu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professor Berges â€“ Marine Biology</td>
<td>S587</td>
<td>berges</td>
</tr>
<tr>
<td>Professor Coggins â€“ Parasitology</td>
<td>S297</td>
<td>coggins</td>
</tr>
<tr>
<td>Professor Dunn â€“ Behavioral Ecology</td>
<td>S497</td>
<td>pdunn</td>
</tr>
<tr>
<td>Professor Ehlinger â€“ Aquatic Ecology</td>
<td>S493</td>
<td>ehlinger</td>
</tr>
<tr>
<td>Professor Karron â€“ Plant Ecology</td>
<td>S585</td>
<td>karron</td>
</tr>
<tr>
<td>Professor Latch â€“ Population Genetics</td>
<td>N215</td>
<td>latch</td>
</tr>
<tr>
<td>Professor RodrÃ­guez â€“ Behavioral Ecology</td>
<td>S295</td>
<td>rafa</td>
</tr>
<tr>
<td>Professor Strickler â€“ Ecology</td>
<td>Water Inst. 137</td>
<td>jrs</td>
</tr>
<tr>
<td>Professor Whittingham â€“ Behavioral Ecology</td>
<td>S499</td>
<td>whitting</td>
</tr>
<tr>
<td>Professor Young â€“ Plant Biology</td>
<td>S593</td>
<td>ebyoung</td>
</tr>
</tbody>
</table>

### Cellular & Molecular Biology Option Advisors

| Professor Heathcote â€“ Neuroscience | N411 | rdh |
| Professor Hutz â€“ Physiology | N509 | rjhutz |
| Professor Oliver â€“ Mammalian Cell Biology | N209 | oliver |
| Professor Scanes â€“ Animal Physiology & Nutrition | S493 | scanes |
| Professor Steeber â€“ Immunology | N211 | steeber |
| Professor Udvadia â€“ Neuroscience | SB80 | audvadia |
| Professor Wejksnora â€“ Molecular Biology | 220 | pjw |
| Professor Wimpee â€“ Molecular Biology | S495 | cwimpee |
| Professor Witten â€“ Neuroscience | N409 | jlw |
| Professor Zhao â€“ Molecular Genetics | 462 | dzhao |

### Microbiology Advisors

| Professor Forst â€“ Molecular Biology | 458 | sforst |
| Professor Kuchin â€“ Genetics | 442 | skuchin |
| Professor McBride â€“ Molecular Biology | N307 | mcbride |
| Professor Prasad â€“ Microbiology | 440 | prasad |
| Professor Saffarini â€“ Environmental Microbiology | N309 | daads |
| Professor Yang â€“ Genomics | 131D | chyang |

### Advisors for Related Programs

**Major in Conservation & Environmental Science**

| Professor Fredlund â€“ Biogeography | 364 | fredlund |

**Pre-Professional (Medical, Veterinary, Dental)**
Related Areas of Study

The Conservation and Environmental Science major is an alternative, interdisciplinary program for students with specific interests in conservation or environmental science (see Interdepartmental Majors, College of Letters & Science).

For the Pre-Forestry (Wildlife Management) curriculum, see the Pre-Professional Programs section (College of Letters & Science).

Pigeon Lake Field Station is a natural laboratory sponsored by the 14 campuses of the University of Wisconsin System, located in the Chequamegon National Forest, 30 miles from Lake Superior in northern Wisconsin’s Bayfield County. Pigeon Lake Field Station offers summer programs in a variety of disciplines, including biology. Work completed at Pigeon Lake is credited as resident study by UWM. For additional information, contact the Biological Sciences Department office.

The UWM Field Station is an area of almost 2,500 acres devoted to the study of natural history and biology. Located about 25 miles north of campus on the Cedarburg Bog in the Town of Saukville, the station includes a wide variety of natural areas ranging from old-growth forest to acid bog and several lakes. Many biological sciences courses use the Field Station for instruction and to provide hands-on research opportunities. The Field Station provides internship and independent study opportunities for biology students; it also offers short courses for credit through the department. For additional information, contact the Biological Sciences Department office.

Courses (BIO SCI)

Crosslisted Courses

The following courses offered by other departments may be used to fulfill the requirements of the undergraduate major and minor in biological sciences:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES 471</td>
<td>Principles of Natural Resource Management</td>
</tr>
<tr>
<td>CES 490</td>
<td>Senior Seminar: Conservation and Environmental Sciences</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
</tr>
<tr>
<td>PSYCH 654</td>
<td>Advanced Physiological Psychology</td>
</tr>
</tbody>
</table>

Faculty and Staff

Felipe Alberto, Asst. Prof., PhD
University of Algarve, Portugal

Sonia Bardi, Asst. Prof., PhD
Queen's University, Ontario

John Berges, Assoc. Prof., PhD
University of British Columbia

Gerald Bergstrom, Prof. Emeritus, PhD

Martin Boraas, Assoc. Prof. Emeritus, PhD

Arthur S. Brooks, Prof. Emeritus, PhD
John Buntin, Prof. Emeritus, PhD

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Wake Forest University

Mary Lynne Perille Collins, Prof. Emerita, PhD

Madhusudan Dey, Asst. Prof., PhD
Jawaharlal Nehru University, India

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University of Alberta

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Michigan State University

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Sergei Kuchin, Assoc. Prof., PhD
Institute of Genetics (Moscow)

Emily Latch, Asst. Prof., PhD
Purdue University

Jakob R. Loewenberg, Prof. Emeritus, PhD

Mark McBride, Prof., PhD
University of Wisconsin-Madison

Julie A. Oliver, Assoc. Prof., PhD
University of Wisconsin-Madison
Marianna Orlova, Instrument Innovator
Institute of Genetics and Selection of Industrial Microorganisms, Moscow

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Miami University

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University of Massachusetts, Amherst

Ruth B. Phillips, Prof. Emerita, PhD

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Maharaja Sayajirao University of Baroda, India

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Yale University

Charles C. Remsen, Prof. Emeritus, PhD

Rafael Rodríguez, Assoc. Prof., PhD
University of Kansas

Daad A. Saffarini, Prof., PhD
University of Wisconsin-Milwaukee

Colin Scanes, Prof., PhD, DSc
University of Wales, Hull University

Dianne Seale, Assoc. Prof. Emerita, PhD

Cynthia V. Sommer, Assoc. Prof. Emerita, PhD

Douglas Steeber, Assoc. Prof., PhD
University of Wisconsin-Madison

J. Rudi Strickler, Distinguished Prof., PhD
Swiss Federal Institute of Technology

Ava Udvadia, Assoc. Prof., PhD
Duke University

Donna Van Wynsberghe, Prof. Emerita, PhD

Eldon D. Warner, Prof. Emeritus, PhD

Roslyn P. Warren, Prof. Emerita, PhD

Peter J. Wejksnora, Assoc. Prof., PhD
Brandeis University

Linda A. Whittingham, Prof., PhD
Queens University, Ontario

Charles F. Wimpee, Assoc. Prof., PhD
University of California, Los Angeles
Prerequisite Preparation for Majors in Chemistry and Biochemistry

General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by Chem 102 and 104 (10 cr.). Students without high school chemistry or whose background in science is weak may need to take Chem 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which in turn is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one’s start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years. (See L&S "Special Degree Programs" section of this catalog.)

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from four different curricular options in chemistry and biochemistry:

1. Standard Chemistry Major
2. Course in Chemistry Degree Program
3. Standard Chemistry Major with a Biochemical Option
4. Biochemistry Major

For any option, at least 15 credits must be taken in chemistry courses numbered 300 or above in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all credits attempted, including any transfer work. Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Premedical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their premedical advisor and an advisor in chemistry regularly.

Requirements and standard timetable for obtaining a degree with these fields of study are provided below.

**Declaration of Major Requirements.** To declare a chemistry or biochemistry major, the following are required:

- Completion of Chem 102 and 104;
- Completion or concurrent registration in Chem 343; and
- A GPA of 2.5 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

**Standard Chemistry Major Option.** The standard chemistry major option may be followed in either the Bachelor of Science or Bachelor of Arts degree. It provides a suitable background for students preparing for employment in chemistry and related scientific fields or for subsequent graduate study.

**REQUIREMENTS**

General Chemistry (CHEM 102 & 104)

Analytical Chemistry (CHEM 221)

Inorganic Chemistry (CHEM 311)

Organic Chemistry (CHEM 343, 344, & 345)

Instrument Analysis (CHEM 524)

Physical Chemistry (CHEM 561, 562, & 563)

Advanced Chemistry Laboratory (CHEM 582 or 584)

Biochemistry or Advanced Inorganic Elective (CHEM 501 or 511)

Independent Research (CHEM 691 or 692) (satisfies L&S research requirement)

Calculus (MATH 231, 232, & 233, MATH 234 recommended)

Physics (calculus-based), with lab (PHYSICS 209, 210, 214, & 215)

**Course in Chemistry Degree Program (Approved by the American Chemical Society)**

The Course in Chemistry is a professional degree program that follows a curriculum approved by the American Chemical Society. It differs from the chemistry major in requiring more courses in chemistry and fewer in the social
sciences and humanities. While any of the chemistry curriculum options (except the biochemistry major), with an appropriate choice of electives, provides a suitable basis for graduate study or employment in chemistry or a related field, the Course in Chemistry is a more complete program and carries additional professional recognition.

**REQUIREMENTS**

General Chemistry (CHEM 102 & 104)

Analytical Chemistry (CHEM 221)

Inorganic Chemistry (CHEM 311)

Organic Chemistry (CHEM 343, 344, & 345)

Instrument Analysis (CHEM 524)

Physical Chemistry (CHEM 561, 562, & 563)

Advanced Chemistry Laboratories (CHEM 582 & 584)

Biochemistry (CHEM 501)

Advanced Inorganic Chemistry (CHEM 511)

Independent Research (CHEM 691 or 692)

Calculus (MATH 231, 232, 233 & 234)

Physics (calculus-based), with lab (PHYSICS 209, 210, 214, & 215)

The Course in Chemistry also has specific requirements outside of the sciences. To graduate, students are required to have an overall GPA of 2.0 and a 2.5 GPA in chemistry courses other than Chem 106. A total of at least 18 credits in the humanities, social sciences, and arts is required. This course array supersedes the College of Letters & Science breadth requirements; courses must be selected to include the campus-wide GER distribution requirements (6 cr. each in humanities and social sciences, 3 cr. in arts, and 3 cr. in cultural diversity). Students also must complete two courses (at least 6 credits) in a single language (including American Sign Language) other than English at the 100 level or above with grades of C or higher. This requirement is satisfied by two years of a single language (including American Sign Language) other than English taken in high school. English 102 with a grade of C or better or a score of 4 on the English placement exam also is required.

See the Course in Chemistry entry in the L&S Degree Programs section of this catalog for additional information.

**Standard Chemistry Major with a Biochemical Option.** The standard chemistry major with a biochemical option differs from the standard major option in that some of the chemistry courses required by the standard option are omitted, and courses in biochemistry and biological sciences are added. Some students planning further study in biochemistry, molecular biology, or medicine may prefer this option.

**REQUIREMENTS**

General Chemistry (CHEM 102 & 104)

Analytical Chemistry (CHEM 221)

Inorganic Chemistry (CHEM 311)
Organic Chemistry (CHEM 343, 344, & 345)

Instrument Analysis (CHEM 524)

Physical Chemistry (CHEM 561, 562, & 563)

Biochemistry (CHEM 501 and two biochemistry courses selected from CHEM 601, 602, 604, & 614)

Biochemistry Laboratory (CHEM 603)

Senior Research (CHEM 691 or 692) (satisfies L&S research requirement)

Biological Sciences (BIO SCI 150 & 325)

Calculus (MATH 231, 232, & 233, MATH 234 recommended)

Physics (calculus-based), with labs (PHYSICS 209, 210, 214, & 215)

SUGGESTED TIMETABLE FOR STANDARD CHEMISTRY MAJOR, COURSE IN CHEMISTRY DEGREE, AND STANDARD CHEMISTRY MAJOR WITH A BIOCHEMICAL OPTION

MODEL FOUR-YEAR PROGRAM
Course (credits)

FRESHMAN YEAR: SEMESTER I
CHEM 102 (5)
MATH precalculus (4)

FRESHMAN YEAR: SEMESTER II
CHEM 104 (5)
MATH 231 calculus (4)

SOPHOMORE YEAR: SEMESTER I
CHEM 343 (3)
CHEM 221 (4)
Math 232 calculus (4)

SOPHOMORE YEAR: SEMESTER II
CHEM 344 (2)
CHEM 345 (3)
Math 233 calculus (4)
Physics 209 (4)
Physics 214 (1)

JUNIOR YEAR: SEMESTER I
CHEM 311 (3)
CHEM 501 (3)* (or take in spring)
Physics 210 (4)
Physics 215 (1)

JUNIOR YEAR: SEMESTER II
CHEM 561 (3)

SENIOR YEAR: SEMESTER I
CHEM 562 (3)
CHEM 563 lab (1)
CHEM 524 (3)
CHEM 582 lab (2)* ** (or take in spring)
CHEM 691 or 692 or 697 (1 or 2)

SENIOR YEAR: SEMESTER II
CHEM 511 (3)*
CHEM 584 lab (2)* ** (or take in fall)
CHEM 524 (3)
CHEM 582 lab (2)* **
CHEM 524 (3)
CHEM 691 or 692 or 697 (1 or 2)

* Courses that may be optional for standard chemistry major; required for the Course in Chemistry degree.

** Courses that are omitted for the standard chemistry major with the biochemical option. In addition, students must take Chem 501, 603, and two courses selected from Chem 601, 602, 604, and 614. Bio Sci 150 and 325 (genetics) also are required for the biochemistry option.

Biochemistry Major. The biochemistry major differs from the standard chemistry major with a biochemical option in a number of ways. It is intended to provide a more intensive education in biochemistry so that students are prepared to work in the biochemical industry upon completing their baccalaureate degree. Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

REQUIREMENTS

General Chemistry (CHEM 102 & 104)
Analytical Chemistry (CHEM 221)
Organic Chemistry (CHEM 343, 344, & 345)
Physical Chemistry (CHEM 560)
Biochemistry (CHEM 501 and two courses selected from CHEM 601, 602, 604, & 614)
Biochemistry Laboratory (CHEM 603)
Independent Research (CHEM 691 or 692) (satisfies L&S research requirement)
Biological Sciences (BIO SCI 150, 325, and 7 cr. from 315, 516, 356, 383, 401, 402, 405, 490, 529, 539, 540, 564 [630], 572, 573, 580, 595, 607, & 667).
Physics (non-calculus-based), with labs (PHYSICS 120, 121, 122, 123)
Mathematics, including Finite Math (MATH 205), Calculus Survey (MATH 211), & Statistics (MTHSTAT 215)

SUGGESTED TIMETABLE FOR THE BIOCHEMISTRY MAJOR
Course (credits)

Freshman Year: Semester I
CHEM 102 (5)
MATH 211 (4)
BIO SCI 150 (4)
Freshman Year: Semester II
CHEM 104 (5)
MATH 205 (3)

Sophomore Year: Semester I
CHEM 221 (4)
CHEM 343 (3)
PHYSICS 120, 121 (5)
MTHSTAT 215 (3)

Sophomore Year: Semester II
CHEM 344 lab (2)
CHEM 345 (3)
PHYSICS 122, 123 (5)
BIO SCI 325 (3)
CHEM 399 (2) (research)

Junior Year: Semester I
CHEM 560 (3)
CHEM 501 (3)

Junior Year: Semester II
BIO SCI Elective (4)
CHEM 602 or 604 biochemistry (3)
CHEM 603 (2)

Senior Year: Semester I
CHEM 601 biochemistry (3)
CHEM 691 or 692 research (2)

Honors in the Major
Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.50 cumulative GPA in all UWM graded credits;
- 3.75 GPA in all UWM chemistry credits;
- 3.50 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

Course of Study: Majors in Other Areas
In addition to programs of study leading to a major in chemistry, the department offers coursework for liberal arts students seeking a nonscientist’s introduction to chemistry as well as for students in other areas whose programs require a background in chemistry. For the liberal arts student, an alternative to the general chemistry courses is Chem 106, "Chemistry in the World Around Us," which qualitatively examines the application of chemical principles to problems of society and everyday life.

Programs in some other science and health-related areas call for a sequence of chemistry courses beginning with the standard general chemistry (Chem 102 and 104). In some cases, this may be followed by alternative courses in organic chemistry (Chem 341) or physical chemistry (Chem 560), which are not accepted as a part of a chemistry major.

Some other professional or preprofessional programs include a sequence consisting of Chem 100 (if needed), Chem 101, and Chem 103. This latter sequence is a terminal one that does not provide prerequisite preparation for any other chemistry courses, and students in these areas who wish to keep their options open for more advanced studies should select the standard general chemistry courses. Students should consult the requirements of their programs before registering.

**Teaching Major and Minor.** See the School of Education section in this catalog.

**Course of Study: Minor**

A minor in chemistry may be a useful addition to the programs of students majoring in other natural sciences areas. The minor consists of a minimum of 20 credits in chemistry, with at least 9 of these at or above the 300 level in residence at UWM. These credits must include general chemistry (through Chem 104) and at least one course each from three of the following areas:

Analytical (Chem 221, 524)
Biochemistry (Chem 501, 601, 602, 603, 604)
Inorganic (Chem 311, 511, 614)
Organic (Chem 341-345)
Physical (Chem 560-563)

At least one course with a laboratory, beyond general chemistry, must be taken. Students must maintain an average GPA of 2.5 in all minor courses attempted at UWM. In addition, students must attain a 2.5 GPA on all minor courses attempted, including any transfer work. Chem 106 does not count toward the minor and is not included in the minor GPA.

For further information regarding degree requirements, see the Chemistry Academic Undergraduate Advisor, Gloria Freschl. Please bring a copy of your transcript when meeting with the advisor to declare a major. Unofficial, free-of-charge UWM transcripts may be obtained from the Department of Enrollment Services in Mellencamp Hall, Room 274.

**Courses Chemistry (CHEM)**

**Faculty**

**Carolyn Aita, Distinguished Prof. Emerita, PhD**

**Joseph Aldstadt, Assoc. Prof., PhD**
Ohio University

**Alexander Arnold, Asst. Prof., PhD**
University of Groningen, The Netherlands

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Benjamin Feinberg, Prof. Emeritus, PhD

David Frick, Assoc. Prof., PhD
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José J. Fripiat, Distinguished Prof. Emeritus, PhD

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Kenneth L. Watters, Prof. Emeritus, PhD

Jorg Woehl, Assoc. Prof., PhD
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SENIOR SCIENTIST

Douglas Stafford, PhD
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Leonid Lerner, Researcher, PhD
Cambridge University, U.K.

Web Home Pages:
[ College of Letters & Science ]
[ Chemistry and Biochemistry ]

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Chemistry and Biochemistry
[ College of Letters & Science ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Administration | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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The Classics program offers instruction in the ancient Greek and classical Latin languages and literatures and in the civilizations of Greece and Rome. Courses offered in the area of classical civilization do not require a knowledge of Greek or Latin.

Students planning to pursue graduate study in classics and related disciplines, or teaching certification in Latin, should consult with the Classics Program coordinator early in their undergraduate career.

Course of Study: Major

There are three major concentrations: Classical Civilization, Ancient Greek Language and Literature, and Classical Latin Language and Literature. Students who major in a Classics Program concentration must complete at least 15 credits of the major in 300-level or above courses in residence at UWM. All students must complete a research experience in their major. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted at UWM as well as a 2.5 GPA on all major credits attempted, including any transfer work.

Classical Civilization Major Concentration

This Concentration is intended for students who wish to study classical literature and culture without pursuing coursework in the original languages. Courses in ancient Greek and Latin are optional and may count toward fulfilling major requirements.

Completion of the major requires a minimum of 33 credits distributed as follows:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic 170</td>
<td>Classical Mythology</td>
<td>3</td>
</tr>
<tr>
<td>Classic 201</td>
<td>Introduction to Greek Life and Literature</td>
<td>3</td>
</tr>
<tr>
<td>Classic 202</td>
<td>Introduction to Roman Life and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Nine additional credits in Classic (not Greek or Latin) courses at the 300 level or above.

For the remaining credits, students may choose from among any Classic, Greek, or Latin courses. Up to 6 credits of these elective courses may include approved courses in related disciplines (see list of approved courses below). A minimum of 15 credits in all courses taken for the major must be taken at the 300 level or above. Students must complete the L&S research requirement in the context of a Classic, Greek, or Latin course of their choosing at the 300 level or above, under the supervision of the instructor of that course.
### Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 312</td>
<td>Minoan and Mycenaean Art and Archaeology</td>
</tr>
<tr>
<td>ARTHIST 313</td>
<td>Greek Art and Archaeology</td>
</tr>
<tr>
<td>ARTHIST 315</td>
<td>Art and Archaeology of Ancient Egypt</td>
</tr>
<tr>
<td>ARTHIST 316</td>
<td>Roman Art and Archaeology</td>
</tr>
<tr>
<td>ARTHIST 412</td>
<td>Cities and Sanctuaries of Ancient Greece</td>
</tr>
<tr>
<td>ARTHIST 413</td>
<td>Greek Sculpture</td>
</tr>
<tr>
<td>ARTHIST 414</td>
<td>Greek Vase Painting</td>
</tr>
<tr>
<td>ARTHIST 416</td>
<td>Roman Architecture</td>
</tr>
<tr>
<td>HEBR ST 236</td>
<td>The Biblical World</td>
</tr>
<tr>
<td>HEBR ST/HIST 274</td>
<td>Ancient Egyptian Civilization</td>
</tr>
<tr>
<td>HIST 201</td>
<td>The Ancient World: The Near East and Greece</td>
</tr>
<tr>
<td>HIST 202</td>
<td>The Ancient World: The Roman Republic and Empire</td>
</tr>
<tr>
<td>HIST 303</td>
<td>A History of Greek Civilization: The Greek City-State</td>
</tr>
<tr>
<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
</tr>
<tr>
<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
</tr>
<tr>
<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought: “Paganism in the Ancient World” subtitle</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Topics in European History: “Rome in the Age of Constantine – Society and Culture” subtitle</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar: &quot;Pagans and Christians in the Roman Empire&quot; subtitle; “Medicine and Healing in Ancient Greece and Rome” subtitle</td>
</tr>
<tr>
<td>PHILOS 430</td>
<td>History of Ancient Philosophy</td>
</tr>
<tr>
<td>PHILOS 550 (450)</td>
<td>Plato</td>
</tr>
<tr>
<td>PHILOS 551 (451)</td>
<td>Aristotle</td>
</tr>
<tr>
<td>PHILOS 552 (452)</td>
<td>Special Topics in Ancient and Medieval Philosophy: (with appropriate subtitle)</td>
</tr>
</tbody>
</table>

### Ancient Greek Language and Literature Major Concentration

The Ancient Greek Language and Literature major concentration requires the completion of 33 credits, including the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GREEK 103</td>
<td>First Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 104</td>
<td>Second Semester Greek</td>
<td>4</td>
</tr>
<tr>
<td>GREEK 205</td>
<td>Third Semester Greek (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>CLASSIC 201</td>
<td>Introduction to Greek Life and Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Four additional courses (12 credits) in Greek at the 300 level or above.

Six additional credits chosen from Greek, Latin, and/or Classic courses.

A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Greek or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

### Classical Latin Language and Literature Major Concentration

The Classical Latin Language and Literature concentration requires the completion of 33 credits, including the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATIN 103</td>
<td>First Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 104</td>
<td>Second Semester Latin</td>
<td>4</td>
</tr>
<tr>
<td>LATIN 205</td>
<td>Third Semester Latin (or equivalent)</td>
<td>4</td>
</tr>
</tbody>
</table>
Introduction to Roman Life and Literature

Four additional courses (12 credits) in Latin courses at the 300 level or above.

Six additional credits chosen from Latin, Greek, and/or Classic courses.

A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM. Students must complete the L&S research requirement in the context of a Latin or Classic course of their choosing at the 300 level or above, under the supervision of the instructor of that course.

Course of Study: Classics Minor Concentrations

There are three minor concentrations: Classical Civilization, Ancient Greek Language and Literature, and Classical Latin Language and Literature. Completion of each minor concentration requires a minimum of 21 credits, at least 9 of which must be upper-division courses (300 level and above) completed in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

Minor Concentration in Classical Civilization

The Classical Civilization minor concentration requires completion of a minimum of 21 credits, including the following:

CLASSIC 170      Classical Civilization
CLASSIC 201      Introduction to Greek Life and Literature
CLASSIC 202      Introduction to Roman Life and Literature

Six additional credits in Classic (not Greek or Latin language) curricular area courses at the 300 level or above.

Six credits selected from among any Classic, Greek, or Latin courses; at least 3 of these credits must be at the 300 level or above.

Minor Concentration in Ancient Greek Language and Literature

The Ancient Greek Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

GREEK 103       First Semester Greek
GREEK 104       Second Semester Greek
GREEK 205       Third Semester Greek (or equiv)

Nine additional credits, 6 of which must be in Greek at the 300 level or above; the remaining 3 credits may be in Greek or Classic at the 300 level or above.

Minor Concentration in Classical Latin Language and Literature

The Classical Latin Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

LATIN 103       First Semester Latin
LATIN 104       Second Semester Latin
LATIN 205       Third Semester Latin (or equiv)

Nine additional credits, 6 of which must be in Latin at the 300 level or above; the remaining 3 credits may be in Latin or Classic at the 300 level or above.

Related Program
Courses

Classics (CLASSIC)

Greek (GREEK)

Latin (LATIN)

Web Home Pages:
[ College of Letters & Science ]
[ Classics ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Classics
[ Foreign Languages and Linguistics ]
[ College of Letters & Science ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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The discipline of communication is the study of human symbolic behavior. In addition to helping students learn to communicate more effectively, communication courses teach students how to analyze human communication in the wide range of communicative situations that people experience daily. These communicative situations include interpersonal, intercultural, organizational, small group, instructional, mediated, and rhetorical/public ones. Communication in these various settings may be oral, written, nonverbal, and/or visual. As the U.S. diversifies and its economy expands the emphasis on teamwork and service, excellent communication skills increasingly are important for a professional career in any field as well as for a more fulfilling life.

Course of Study

Students may declare a major or minor in communication after completion of Commun 101 (Introduction to Interpersonal Communication), 103 (Public Speaking), 105 (Business and Professional Communication), and a total of 15 credits toward the degree. For admission to the major or minor, students must earn at least a B- grade in each of the three core courses, Commun 101, 103, and 105. Prospective majors and minors are advised strongly to be competent in written and oral language skills prior to seeking admission to the program.

Graduation with a major or minor requires a cumulative GPA of at least 2.50 in all communication courses attempted at UWM as well as a 2.50 GPA in all major credits attempted, including any transfer work. All courses in the major or minor must be taken for graded credit.

MAJOR

A major in communication consists of at least 36 credits in communication courses, including Commun 101, 103, 105, and either 335 or 370. At least 18 of the 36 credits must be numbered 300 or above, 15 of these taken in residence at UWM. The remaining 24 credits may be selected from across the communication curriculum.

A maximum of 6 credits earned in any combination of the following courses may count toward the minimum number of credits required for the major in communication:

199 Independent Study
288 Research Practicum
296 UROP Apprenticeship
298 Internship in Communication, Lower Division
597 Practicum in Teaching Communication
588 Research Practicum
698 Internship in Communication
699 Advanced Independent Reading

The College requires that students complete a research experience in their major. The Department of Communication
has structured Commun 335 and 370 to satisfy that requirement. In these courses, students must produce a written final research paper that involves conducting independent research in addition to evaluating research in the field and integrating it with their findings. Students will present their research in oral form to their course colleagues.

Honors in the Major

Communication majors who want to graduate with honors in the major must attain a 3.0 GPA on all credits attempted, a 3.75 GPA on all coursework taken to complete the major, and a 3.75 GPA on advanced (300 level and above) courses in the major. A minimum of 24 credits, at least 15 at the 300-level or above, in communication courses must be taken in residence at UWM.

MINOR

A minor in communication consists of at least 18 credits in communication courses. Nine credits numbered 300 or above must be taken in residence at UWM in addition to completing Commun 101, 103, and 105.

Specialized Courses: Variable Content and Independent Study

In addition to offering standard coursework, the Department of Communication offers undergraduates opportunities for specialized study.

Variable Content Courses: The content of Commun 192, 193, 380, 631, 641, 651, 660, 662, and 671 varies each semester. Specific topics are announced in the Schedule of Classes.

Independent Study Courses: These courses offer students the opportunity to work and study on a one-on-one basis with a faculty member. Students interested in taking Commun 199, 288, 588, 597, and/or 699 should contact an individual faculty member to determine the faculty member’s willingness to sponsor the enrollment.

Courses

Communications (COMMUN)

Crosslisted Courses

The following courses offered by other academic units may be used to fulfill the requirements of the undergraduate major and minor in communication:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 209</td>
<td>Language in the United States</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
<td>3</td>
</tr>
</tbody>
</table>

Related Courses

The following courses offered by the Department of English may be of interest to students in communication but may not be used to fulfill requirements of the major and minor:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 205</td>
<td>Business Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 436</td>
<td>Writing for Information Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Faculty
Mike R. Allen, Prof., PhD
Michigan State University

Sandra Braman, Prof., PhD
University of Minnesota

Nancy A. Burrell, Prof., PhD
Michigan State University

Kathryn A. Dindia, Prof. Emerita, PhD

Kathryn Fonner, Assoc. Prof., PhD
Northwestern University

Leslie Harris, Asst. Prof., PhD
Northwestern University

John R. Johnson, Prof. Emeritus, PhD

John W. Jordan, Assoc. Prof., PhD
University of Georgia

Sangyeon Kim, Asst. Prof., PhD
Michigan State University

Tae-Seop Lim, Prof., PhD
Michigan State University

Edward A. Mabry, Assoc. Prof. Emeritus, PhD

Kathryn M. Olson, Prof., PhD, Chair
Northwestern University

Robert S. Ricigliano, Adjunct Prof., JD
Harvard Law School
Director, Peace Studies
Director, Institute of World Affairs

Erin Ruppel, Asst. Prof., PhD
University of Arizona, Tucson

Erin Sahlstein Parcell, Assoc. Prof., PhD
University of Iowa

Hayeon Song, Asst. Prof., PhD
University of Southern California

C. Erik Timmerman, Assoc. Prof., PhD
University of Texas at Austin

Lindsay Timmerman, Assoc. Prof., PhD
University of Texas at Austin

Web Home Pages:
[ College of Letters & Science ]
Economics is the study of choice. In a world with scarce resources (such as raw materials, labor, time), economists study how people choose to use those resources to make people as well-off as possible. The economics curriculum stresses both theory and application of important economic issues in society, such as unemployment, inflation, exchange rates, labor markets, economic development, environmental policies, and international trade and finance.

The Department of Economics offers a wide variety of courses in economic theory, policy, and statistics.

Course of Study: Major

The major in economics requires a minimum of 30 credits including the following:

- Econ 103 Principles of Microeconomics 3
- Econ 104 Principles of Macroeconomics 3
- Econ 210* Economic Statistics 3
- Econ 301 Intermediate Microeconomics 3
- Econ 302 Intermediate Macroeconomics 3

* Bus Adm 210 or MthStat 215 may be substituted for Econ 210 and will count in the major GPA.

At least 15 credits must be in upper-division (300-level and above) economics courses taken in residence at UWM. At least one course must be at the 400 level or above, excluding Econ 415. To major in economics, students must earn grades of at least C in Econ 103 and 104, attain at least a 2.5 GPA on all credits in the major attempted at UWM, and attain at least a 2.5 GPA on all major credits attempted when any transfer work is included along with the UWM work.

Research Requirement

All majors in economics must complete an independent research experience by selecting from the list below a 400- or 500-level course in which they will write and present a research paper. The contents of the paper and the presentation of the results will be arranged with the faculty member teaching the course.

* Eligible courses are Econ 403, 404, 405, 411, 413, 422, 426, 432, 437, 447, 448, 454, 455, 506, 513, 525, 529, and 699.

Honors in the Major
Departmental honors are awarded upon graduation to students who achieve a 3.00 GPA on all credits attempted, a 3.50 GPA on all credits that count toward the major, and a 3.50 GPA on all credits in advanced-level (numbered 300 and above) courses that count toward the major.

Optional Concentrations

The Department offers three optional concentrations within the major. While completing the major requirements outlined above, students may elect to complete one of the following sets of requirements:

1. International Economics – three courses from the international module.
2. Quantitative Methods – three courses from the quantitative methods module.
3. Graduate Preparation – two courses each from the quantitative methods module and the economic theory module as follows:

   Econ 413 Statistics for Economists 3
   Econ 506 Mathematical Economics I 3
   Econ 513 Econometrics 3
   Econ 606 Mathematical Economics II 3

For courses that meet the requirements of each module, see the economics courses listings.

Course of Study: Minor

The minor in economics requires a minimum of 18 credits, including Econ 103, 104, 210* and 9 credits in upper-division (300-level or above) economics courses taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM, and at least a 2.5 GPA on all minor credits attempted when any transfer work is included along with the UWM work.

* Bus Adm 210 or MthStat 215 may be substituted for Econ 210 and will count in the minor GPA.

Related Programs

For the teaching major and minor, see the School of Education section of this catalog.

A related special major is international studies; a related degree program is the BA in Global Studies.

Courses

Economics (ECON)

Faculty

Scott Adams, Assoc. Prof., PhD
Michigan State University

Swarjit S. Arora, Prof., PhD
State University of New York at Buffalo
Director, Institute for Survey and Policy Research

Mohsen Bahmani-Oskoe, Distinguished Wilmeth Prof., PhD, Chair
Michigan State University
Director, Center for Research on International Economics
Keith Bender, Prof., PhD  
Duke University

Niloy Bose, Prof., PhD  
Virginia Tech

Avik Chakrabarti, Assoc. Prof., PhD  
University of Michigan

Susan Donohue Davies, Adj. Asst. Prof., PhD  
University of Wisconsin-Milwaukee

Scott D. Drewianka, Assoc. Prof., PhD  
University of Chicago

Arthur W. Else, Assoc. Prof. Emeritus, PhM

Antonio Galvão, Assoc. Prof., PhD  
University of Illinois at Urbana-Champaign

Chuan Goh, Asst. Prof., PhD  
University of California, Berkeley

Laura Grant, Asst. Prof., PhD  
University of California, Berkeley

John S. Heywood, Distinguished Prof., PhD  
University of Michigan  
Director, Master of Human Resources and Labor Relations

William L. Holahan, Prof. Emeritus, PhD

Sunwoong Kim, Prof., PhD  
Massachusetts Institute of Technology

N. Kundan Kishor, Assoc. Prof., PhD  
University of Washington

Sarahnn Kroeger, Asst. Prof., PhD  
Boston University

Itziar Lazkano, Asst. Prof., PhD  
University of Calgary

Tong Hun Lee, Prof. Emeritus, PhD

Vivian Lei, Assoc. Prof., PhD  
Purdue University

Markos J. Mamalakis, Prof. Emeritus, PhD

Matthew McGinty, Assoc. Prof., PhD  
University of California, Santa Cruz

G. Richard Meadows, Prof. Emeritus, PhD
Courses offered in the English curricular area of the Department of English are concerned primarily with the language and literature of English-speaking peoples. They are designed to develop skills in reading and writing and to offer students a variety of approaches to literature, language, and rhetoric. Further, the department seeks to encourage in each student a questioning approach to canon formation and aesthetic criteria, especially through the texts of previously marginalized minority and women writers, in order to gain insight into cultural diversity.

The English as a Second Language curricular area offers instruction in English for students whose native language is not English.

Course of Study: Major

The department welcomes prospective majors who have maintained a minimum 2.5 GPA in their English courses during the freshman and sophomore years.

Prospective majors are expected to consult with the associate chair for undergraduate studies in designing a program that satisfies their individual interests, abilities, and ambitions; if appropriate, a particular requirement may be waived to meet a student’s special programmatic needs. English majors intending to continue their studies in graduate school are urged to plan with the coordinator a program that meets graduate school expectations and prepares them for the Graduate Record Exam.

Students entering with advanced standing are required to earn at least 15 credits in English courses numbered 300 and above while in residence at UWM.

Credit Requirements. All majors are required to take ENGLISH 215, "Introduction to English Studies." This is a rigorous sophomore-level course designed to introduce students to the discipline; to teach them how to read closely and critically; and to instruct them in the writing of analytical essays. Since ENGLISH 215 is intended to help students improve their performance in upper-level English courses, it is recommended strongly that students take it before registering for any higher-level courses. All students must complete ENGLISH 215 before declaring the major.

All courses taken towards the major must be at or above the 300 level unless otherwise noted. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work.

English majors also must complete one of the following tracks. In each track, in their senior year, majors complete a
capstone course or senior seminar. This course includes one or more in-depth writing assignments or projects that include a research component, which satisfies the research requirement for the L&S degree.

### Track A: Literary and Critical Studies

- 3 credits in ENGLISH 215 (Introduction to English Studies)
- 6 credits in English literature before 1900 (301-304, 451-458, 500-505, 530), including 3 credits in pre-1800 literature (301-303, 451-457, 500-504, 530)
- 3 credits in American literature before 1900 (307, 308, 460)
- 3 credits in theory and criticism (378, 390, 392, 394, 395, 402, 432, 545, 547, 626)
- 6 credits in minority, women's, or global literature (306, 332, 372-377, 381, 463-465, 517, 518, 520-524, 622, 628, 629, 631, 632)
- 3 credits in advanced intensive writing (415, 416, 430, 431, 433, 434-438, 615, 616)
- 9 credits in English electives at the 300 level or above
- 3 credits in a capstone seminar selected from ENGLISH 620-634, 685 (satisfies L&S research requirement)

**Total = 36 credits**

### Track B: Rhetoric and Writing

- 3 credits in ENGLISH 215 (Introduction to English Studies)
- 3 credits selected from English:
  - 201 (Strategies for Academic Writing)
  - 208 (Writing and Research)
  - 230 (Writing with Style)
- 3 credits in ENGLISH 240 (Rhetoric, Writing and Culture)
- 3 credits in pre-1800 literature (301-303, 451-457, 500-504, 530)
- 3 credits in ENGLISH 430 (Advanced Writing Workshop)
- 3 credits selected from:
  - ENGLISH 431 (Topics in Advanced Writing) with "Rhetorical History and Theory" subtitle
  - COMMUN 435 (Rhetoric in Western Thought)
  - COMMUN 436 (Recent Rhetorical Theory)
- 3 credits selected from English:
  - 440 (Introduction to Peer Tutoring and Practice)
  - 449 (Writing Internship in English)
- 3 credits selected from:
  - ENGLISH 378 (Survey of Current Literary and Cultural Theory)
  - COMMUN 335 (Critical Analysis of Communication)
- 3 credits in minority literature selected from English:
  - 372 (Survey of American Indian Literature)
  - 373 (Survey of Ethnic Minority Literature)
  - 374 (Survey of U.S. Latino/a Literature)
  - 375 (Survey of Asian American Literature)
  - 376 (Survey of African American Literature to 1930)
  - 377 (Survey of African American Literature, 1930-Present)
  - 463 (Writers in African American Literature)
  - 517 (Studies in African American Literature)
  - 520 (Studies in American Indian Literature)
  - 521 (Studies in Ethnic Minority Literature)
  - 523 (Studies in U.S. Latino/a Literature)
  - 524 (Studies in Asian American Literature)
  - 631 (Seminar in African American Literature)
632 (Seminar in American Indian Literature)
- 3 credits in women’s literature or gender studies selected from English:
  - 465 (Women Writers)
  - 628 (Seminar in Literature by Women)
  - 629 (Seminar in Literature and Sexuality)
- 3 credits in an upper-level English elective
- 3 credits in a capstone seminar experience: ENGLISH 633 (Seminar in Rhetoric and Writing) (satisfies L&S research requirement)

Total = 36 credits

Track C: Creative Writing

- 3 credits in ENGLISH 215 (Introduction to English Studies)
- 3 credits selected from English:
  - 233 (Introduction to Creative Writing)
  - 234 (Writing Fiction: Structure and Technique)
  - 235 (Writing Poetry: Forms, Styles, Voices)
- 3 credits in pre-1800 literature (301-303, 451-457, 500-504, 530)
- 6 credits selected from English:
  - 301-304 (English literature surveys)
  - 451 (Chaucer)
  - 454 (Milton)
  - 455 (Writers in Drama)
  - 456 (Writers in English Literature, 1500-1660)
  - 457 (Writers in English Literature, 1660-1798)
  - 458 (Writers in English Literature, 1798-1900)
  - 500 (Studies in Medieval and Early Modern Literature)
  - 501 (Studies in Literature, 1500-1660)
  - 504 (Studies in Literature, 1660-1800)
  - 505 (Studies in Literature 1800-1900)
- 9 credits selected from English:
  - 414 (Special Topics in Creative Writing)
  - 415 (Fiction Workshop)
  - 416 (Poetry Workshop)
  - 611 (The Writer and the Current Literary Scene)
  - 612 (Poetry and the Creative Process)

[Note: To satisfy prerequisites for ENGLISH 615 or 616, required below, students must take either 415 or 416 twice.]

- 6 credits selected from English:
  - 305 (Survey of English Literature: 1900 to the Present)
  - 308 (Survey of American Literature: 1865-1965)
  - 309 (Survey of Contemporary American Literature)
  - 325 (The Art of Fiction)
  - 326 (The Development of the Novel)
  - 327 (The Development of the Short Story)
  - 328 (Forms of Experimental Literature)
  - 360 (The Art of Poetry)
  - 361 (The Development of Poetry)
  - 378 (Survey of Current Literary and Cultural Theory)
  - 417 (Readings for Writers)
515 (Literature and the Other Arts)
- 3 credits in an upper-level English elective
- 3 credits in a capstone experience selected from ENGLISH 615 (Advanced Workshop in Fiction) or 616 (Advanced Workshop in Poetry) (satisfies L&S research requirement)

Total = 36 credits

Track D: English Language and Linguistics

- 3 credits in ENGLISH 215 (Introduction to English Studies)
- 3 credits selected from English:
  - 209 (Language in the United States)
  - 210 (International English)
- 3 credits in pre-1800 literature (301-303, 451-457, 500-504, 530)
- 12 credits in English/Linguistics:
  - 400 (Introduction to English Linguistics)
  - 401 (History of the English Language)
  - 403 (Survey of Modern English Grammar)
  - 404 (Language, Power, and Identity)
- 3 credits in English:
  - 301-303 (English pre-1800 literature surveys)
  - 451 (Chaucer)
  - 454 (Milton)
  - 456 (Writers in English Literature, 1500-1660)
  - 500 (Studies in Medieval and Early Modern Literature)
  - 501 (Studies in Literature, 1500-1660)
- 3 credits in English:
  - 372 (Survey of American Indian Literature)
  - 373 (Survey of Ethnic Minority Literature)
  - 374 (Survey of U.S. Latino/a Literature)
  - 375 (Survey of Asian American Literature)
  - 376 (Survey of African American Literature to 1930)
  - 377 (Survey of African American Literature, 1930-Present)
  - 381 (World Literatures Written in English)
- 6 credits in upper-level English electives numbered 400 or above
- 3 credits in a capstone seminar experience: ENGLISH 634 (Seminar in English Language Studies) (satisfies L&S research requirement)

Total = 36 credits

Track E: Literature, Culture, and Media

- 3 credits in ENGLISH 215 (Introduction to English Studies)
- 3 credits in ENGLISH 290 (Introduction to Film Studies)
- 3 credits in pre-1800 literature (301-303, 451-457, 500-504, 530)
- 6 credits in literary surveys selected from ENGLISH 301-309 (with 3 credits in a pre-1900 literature course)
- 6 credits (total) selected from courses in two of the following areas:
  - American Indian Literature (372, 520)
  - Ethnic Minority Literature (373, 521)
  - World Literatures in English (381, 522)
  - U.S. Latino/a Literature (374, 523)
  - Asian American Literature (375, 524)
  - African American Literature (376, 377, 463, 517)
  - Women's Literature (465)
LGBT Literature (332)

- 3 credits selected from English:
  - 378 (Survey of Current Literary and Cultural Theory)
  - 402 (Theories of Language and Literature)
  - 545 (Studies in the History of Literary Criticism)
  - 547 (Studies in Theory and Criticism)

- 3 credits selected from English:
  - 459 (Writers in English Literature, 1900 to the Present)
  - 461 (Writers in American Literature, 1900 to the Present)
  - 507 (Studies in Literature, 1900 to the Present)

- 3 credits selected from English:
  - 390 (Classical Film Criticism and Theory)
  - 391 (Television Criticism and Theory)
  - 392 (Contemporary Film Criticism and Theory)
  - 394 (Theories of Mass Culture)
  - 395 (Feminist Film Criticism and Theory)

- 3 credits selected from English:
  - 312 (Topics in Film Studies)
  - 316 (World Cinema)
  - 320 (Studies in Film Authorship)
  - 329 (Film and Literature)
  - 330 (Film and Drama)
  - 380 (Media and Society)
  - 383 (Cinema and Genre)

- 3 credits in a capstone seminar experience selected from ENGLISH 620-632 (satisfies L&S research requirement)

Total = 36 credits

**Track F: Literature and Language Studies**

(Completing this option alone does not satisfy the requirements for teaching certification. For certification requirements, see the School of Education section of this catalog.)

- 3 credits in ENGLISH 215 (Introduction to English Studies)
- 3 credits selected from English:
  - 201 (Strategies for Academic Writing)
  - 208 (Writing and Research)
- 6 credits in advanced writing courses selected from English:
  - 430 (Advanced Writing Workshop)
  - 440 (Introduction to Peer Tutoring and Practice)
  - 445 (The Composing Process)
- 3 credits in advanced language and linguistics courses selected from English/Linguis:
  - 400 (Introduction to English Linguistics)
  - 401 (History of the English Language)
  - 403 (Survey of Modern English Grammar)
  - 404 (Language, Power, and Identity)
  - 350 (Introduction to Linguistics)
- 3 credits in literature surveys (ENGLISH 301-309)
- 3 credits in genre courses selected from English:
  - 326 (The Development of the Novel)
  - 327 (The Development of the Short Story)
  - 328 (Forms of Experimental Literature)
  - 329 (Film and Literature)
  - 341 (The Development of Drama)
- 361 (The Development of Poetry)
- 3 credits in focus courses selected from English:
  - 451 (Chaucer)
  - 452 (Shakespeare)
  - 454 (Milton)
  - 456 (Writers in English Literature, 1500-1660)
  - 457 (Writers in English Literature, 1660-1798)
  - 458 (Writers in English Literature, 1798-1900)
  - 459 (Writers in English Literature, 1900-Present)
  - 460 (Writers in American Literature, 1800-1900)
  - 461 (Writers in American Literature, 1900-Present)
  - 465 (Women Writers)
- 3 credits in literature and culture surveys selected from English:
  - 372 (Survey of American Indian Literature)
  - 373 (Survey of Ethnic Minority Literature)
  - 374 (Survey of U.S. Latino/a Literature)
  - 375 (Survey of Asian American Literature)
  - 376 (Survey of African American Literature to 1930)
  - 377 (Survey of African American Literature, 1930-Present)
  - 381 (World Literatures Written in English)
- 3 credits in critical theory selected from English:
  - 378 (Survey of Current Literary and Cultural Theory)
  - 545 (Studies in the History of Literary Criticism)
  - 547 (Studies in Theory and Criticism)
- 3 credits in historical concentration courses selected from English:
  - 501 (Studies in Literature, 1500-1660)
  - 504 (Studies in Literature, 1660-1800)
  - 505 (Studies in Literature, 1800-1900)
  - 507 (Studies in Literature, 1900-Present)
  - 530 (Studies in Shakespeare)
  - 621 (Seminar in the Literature of England)
  - 623 (Seminar in American Literature)
  - 624 (Seminar in Modern Literature)
  - 627 (Seminar in Literature and Culture)
  - 685 (Honors Seminar)
- 3 credits in literature and culture concentration courses selected from English:
  - 514 (Literature in Context)
  - 515 (Literature and the Other Arts)
  - 517 (Studies in African American Literature)
  - 518 (Studies in Irish Literature)
  - 519 (Studies in Irish American Literature)
  - 520 (Studies in American Indian Literature)
  - 521 (Studies in Ethnic Minority Literature)
  - 523 (Studies in U.S. Latino/a Literature)
  - 524 (Studies in Asian American Literature)
- 3 credits in a capstone seminar experience selected from ENGLISH 620-632 (if not completed as historical concentration course)

Total = 36-39 credits

Track G: Professional and Technical Writing

- 3 credits in ENGLISH 215 (Introduction to English Studies)
- 3 credits in pre-1800 literature (301-303, 451-457, 500-504, 530)
• 3 credits in ENGLISH 439 (Document Design)
• 18 credits selected from any of the following:
  • 3 credits maximum selected from ENGLISH 205, 206, 207, or 214
  • ENGLISH 431 (Topics in Advanced Writing)
  • ENGLISH 433 (Creative Nonfiction)
  • ENGLISH 434 (Editing and Publishing)
  • ENGLISH 435 (Professional and Technical Writing)
  • ENGLISH 436 (Writing for Information Technology)
  • ENGLISH 437 (Project Management)
  • ENGLISH 443 (Grant Writing)
  • ENGLISH 444 (Technical Writing)
  • ENGLISH 448 (Professional Writing Theory and Practice)
• 3 credits in an upper-level English elective
• 3 credits in a 600-level English seminar
• 3 credits in a capstone experience: ENGLISH 449 (Writing Internship in English) (satisfies L&S research requirement)

Total = 36 credits

Track H: Media, Cinema, and Digital Studies

• 3 credits in ENGLISH 215 (Introduction to English Studies)
• 3 credits in ARTHIST/ENGLISH/FILMSTD 111 (Entertainment Arts: Film, Television, and the Internet)
• 3 credit in ENGLISH 290 (Introduction to Film Studies)
• 6 credits selected from the following:
  • ENGLISH 211 (Aspects of the English Language: Subtitle)
  • ENGLISH 291 (Introduction to Television Studies)
  • ENGLISH 294 (Game Culture)
• 3 credits in writing or literature, selected from ENGLISH 301-309, 325-328, 332-381, 414-423, 425-438, 447, 451-547
• 15 credits in media, cinema, and digital studies, including at least 3 credits from each area, selected from the following:
  • ENGLISH/FILMSTD 286 (Writing About Film and Television)
  • ENGLISH/FILMSTD 291 (Introduction to Television Studies) (if not selected above)
  • ENGLISH/FILMSTD 293 (Literature and Media: Subtitle)
  • ENGLISH 294 (Game Culture)
  • ENGLISH/FILMSTD 295 (Women and Film)
  • ENGLISH/FILMSTD 312 (Topics in Film Studies: Subtitle)
  • ENGLISH/FILMSTD 316 (World Cinema: Subtitle)
  • ENGLISH/FILMSTD 320 (Studies in Film Authorship: Subtitle)
  • ENGLISH 328 (Forms of Experimental Literature: with appropriate subtitle) (Contact Track H coordinator.)
  • ENGLISH/FILMSTD 329 (Film and Literature)
  • ENGLISH/FILMSTD 380 (Media and Society: Subtitle)
  • ENGLISH/FILMSTD 383 (Cinema and Genre: Subtitle)
  • ENGLISH/FILMSTD 390 (Classical Film Criticism and Theory)
  • ENGLISH/FILMSTD 391 (Television Criticism and Theory)
  • ENGLISH/FILMSTD 392 (Contemporary Film Criticism and Theory: Subtitle)
  • ENGLISH/FILMSTD 394 (Theories of Mass Culture: Subtitle)
  • ENGLISH/FILMSTD 395 (Feminist Film Criticism and Theory: Subtitle)
  • ENGLISH 414 (Special Topics in Creative Writing: with appropriate subtitle) (Contact Track H coordinator.)
  • ENGLISH 431 (Topics in Advanced Writing: with appropriate subtitle) (Contact Track H coordinator.)
  • ENGLISH 436 (Writing for Information Technology)
- ENGLISH 515 (Literature and the Other Arts: with appropriate subtitle) (Contact Track H coordinator.)
- ENGLISH 690 (Seminar in Contemporary Film Theory) (if not selected as capstone)
- FILMSTD 212 (Intermediate Topics in Film Studies: Subtitle)
- FILMSTD/JEWISH 350 (Global Jewish Film and Television: Subtitle)
- FILMSTD 412 (Global Cinemas – Cinematic Practices in the Context of Globalization: Subtitle)
- FILMSTD 669 (Screening Sexuality: Subtitle)
- FILMSTD 690 (Seminar in Contemporary Film Theory) (if not selected as capstone)
- 3 credit in a capstone seminar experience: ENGLISH 690 or FILMSTD 690 (satisfies L&S research requirement)

Total = 36 credits

**Honors in the Major**

English majors who have maintained at least a 3.5 GPA in courses for the major may apply to the coordinator of undergraduate studies to graduate with "Honors in the Major."

**Course of Study: Minor**

The minor in English requires ENGLISH 215 (Introduction to English Studies) and a minimum of 15 credits in English courses numbered 300 and above (at least 9 taken in residence at UWM) including at least one of the following: 451 (Chaucer), 452 (Shakespeare), 454 (Milton), or 530 (Studies in Shakespeare: [Subtitle]). Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

For the teaching major and minor, see the School of Education section of this catalog.

**Courses**

**English (ENGLISH)**

**English as a Second Language (ESL)**

**Crosslisted Courses**

The following courses offered by other departments may be used to fulfill the requirements of the undergraduate major or minor in English:

- COMMUN 300 Interviews and Interviewing
- COMMUN 313 Human Communication and Technology
- COMMUN 410 Organizational Communication Technology
- JMC 306 Feature and Magazine Article Writing
- JMC 562 Media Studies and Culture
- THEATRE 359 Playwriting I

**Related Courses**

The following courses offered by other departments may be of interest to students in English but may not be used to fulfill the requirements of the undergraduate major or minor in English:

- COMMUN 105 Business and Professional Communication
Faculty

Ralph M. Aderman, Prof. Emeritus, PhD

Ruth I. Aldrich, Prof. Emerita, PhD

Gerald J. Alred, Prof. Emeritus, MA

Sukanya Banerjee, Assoc. Prof., PhD
University of California, Riverside

F. Xavier Baron, Prof. Emeritus, PhD

Kimberly M. Blaeser, Prof., PhD
University of Notre Dame

Gilberto M. Blasini, Assoc. Prof., PhD
University of California, Los Angeles
Director, Film Studies

Mary Louise Buley-Meissner, Assoc. Prof., PhD
University of Washington

Marcus P. Bullock, Prof. Emeritus, PhD

Liam Callanan, Assoc. Prof., MFA, Chair
George Mason University

Brenda Cárdenas, Assoc. Prof., MFA
University of Michigan - Ann Arbor

Joseph SMJ Chang, Assoc. Prof. Emeritus, PhD

David Clark, Assoc. Prof., PhD
Iowa State University

George Clark, Prof., PhD
Florida State University

Pamela Downing, Assoc. Prof. Emerita, PhD

Rebecca Dunham, Assoc. Prof., PhD
University of Missouri

Susan Firer, Sr. Lect., MA
University of Wisconsin-Milwaukee

J. Denny Fischer, Asst. Prof., PhD
University of Illinois

Jane A. Gallop, Distinguished Prof., PhD
Alice M. Gillam, Assoc. Prof. Emerita, PhD
John A. Goulet, Prof. Emeritus, PhD
Scott Graham, Asst. Prof., PhD
Iowa State University
Audrey N. Grandgeorge, Asst. Prof. Emerita, MS
Sandra Grayson, Prof., PhD
University of California, Riverside
Richard Grusin, Prof., PhD
University of California, Berkeley
Director, Center for 21st Century Studies
J. Lane Hall, Prof., MFA
University of Wisconsin-Madison
William F. Halloran, Prof. Emeritus, PhD
Kristie G. Hamilton, Assoc. Prof., PhD
University of Texas at Austin
Ihab H. Hassan, Vilas Prof. Emeritus, PhD
Gregory S. Jay, Prof., PhD
State University of New York at Buffalo
Barrett Kalter, Assoc. Prof., PhD
Rutgers University
Gwynne Kennedy, Assoc. Prof., PhD
University of Pennsylvania
Maurice Kilwein-Guevara, Prof., PhD
University of Wisconsin-Milwaukee
Andrew F. Kincaid, Assoc. Prof., PhD
University of Minnesota
James M. Kuist, Prof. Emeritus, PhD
Valerie Laken, Assoc. Prof., MFA.
University of Michigan - Ann Arbor
Josepha Lanters, Prof., PhD
University of Leiden, The Netherlands
Dennis Lynch, Assoc. Prof., PhD
University of California, Berkeley
Andrew V. Martin, Assoc. Prof., PhD
University of Iowa
Theodore Martin, Asst. Prof., PhD
University of California, Berkeley

Patricia Mayes, Assoc. Prof., PhD
University of California, Santa Barbara

Annie McClanahan, Asst. Prof., PhD
University of California, Berkeley

Margaret Mika, Sr. Lect., MA
University of Wisconsin-Milwaukee

Stuart Moulthrop, Prof., PhD
Yale University

Jane B. Nardin, Prof. Emerita, PhD

Mark Netzloff, Assoc. Prof., PhD
University of Delaware

Margaret Noodin, Asst. Prof., PhD
University of Minnesota

Tasha G. Oren, Assoc. Prof., PhD
University of Wisconsin-Madison

Patrice S. Petro, Prof., PhD
University of Iowa
Director, Center for International Education

Jason Puskar, Assoc. Prof., PhD
Harvard University

Justin M. Replogle, Prof. Emeritus, PhD

Sheila V. Roberts, Prof. Emerita, DLitt

Peter Sands, Assoc. Prof., PhD, JD
Binghamton University, SUNY

Kum Kum Sangari, Assoc. Prof., PhD
University of Leeds

Charles I. Schuster, Prof., PhD
University of Iowa

Robert H. Siegel, Prof. Emeritus, PhD

Rachel Spilka, Assoc. Prof., PhD
Carnegie Mellon University

Bruce R. Stark, Assoc. Prof. Emeritus, PhD

Robert K. Stone, Prof. Emeritus, PhD
The Certificate in Comparative Ethnic Studies is open to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements.

Through coursework, independent study, internships, and/or service learning, students in comparative ethnic studies analyze the social processes by which concepts such as race, ethnicity, class, gender, and sexuality are given meaning. The program examines global and local processes of im/migration and settlement and considers ways in which policy and law, grassroots social movements, and popular cultures shape social identities.

The Certificate Program in Comparative Ethnic Studies is open to students majoring in any field, from any school or college. The purpose of the certificate program is to enable a student interested in an aspect of comparative ethnic studies to take a coordinated set of courses while completing the requirements for a degree in a conventional discipline or field of knowledge. Completion of the certificate program provides an opportunity for students to develop expertise in crucial contemporary and historical issues.

Requirements

To receive the certificate, the student must earn a minimum of 21 credits as stated below, at least 12 from UWM, with a grade point average of 2.75 or better. A minimum of 9 credits must be earned in upper-division (numbered 300 and above) courses. At least 18 credits must be taken in the Ethnic curricular area; the other 3 credits may be selected from the approved list of elective courses. Students may discuss their specific needs and programs of study with the program coordinator, Rachel Buff. Substitutions for credits in the Ethnic curricular area are subject to the approval of the program coordinator.

Courses for the certificate must include the following:

4. Electives to reach 21 cr.

Approved Electives
Africology

100 Black Reality: Survey of African-American Society
102 Survey of African-American Literature
111 Introduction to African-American History to 1865
112 Introduction to African-American History, 1865 to the Present
121 Introduction to African-American Politics
125 Economics of the Black Community
163 African-American Concept of Self
210 The African-American Novel
228 Introduction to Black Political Economy
250 Black Women and White Women in the Contemporary United States
261 Survey of African-American Political Philosophy
265 Psychological Effects of Racism
300 Urban Violence
312 The Church in African-American Life
314 The School in African-American Life
319 History of Blacks in the American City
321 Black Workers in Technologic Society
322 Order and Disorder: The Quest for Social Justice
326 Economic Problems and Black Business
327 Black Business and Management
341 Black Politics and City Government
350 The Black Family
365 Recurring Philosophical Problems in African-American Literature
369 Mass Media and Black Self-Images
372 African-American Literary Movements: The Harlem Renaissance
402 Black Personality Development
411 Change in African-American Communities
412 Blacks and the United States Constitution
416 Race, Injustice, and Change in America

420 The Political Economy of Slavery

Anthropology
150 Multicultural America

213 American Indian Peoples of Wisconsin

314 American Indian Societies and Cultures

332 American Indian Religions

334 American Indians of the Southwest

335 American Indians of the Southeast

336 American Indians of the Northeast

565 Seminar in Regional Archaeology: "Great Lakes Late Prehistory" subtitle

641 Seminar in Anthropology: "American Indian Material Culture" subtitle

Arabic
164 Arabs and Islam in America

Art History
355 American Folk Art

Biological Sciences
105 Great Lakes American Indian Ethnobotany

Economics
248 Economics of Discrimination

Educational Policy and Community Studies
314 The School in African-American Life

561 Education Issues in American Indian Communities

579 Current Topics in Cultural Foundations of Education: "Anti-Racist Education" subtitle

621 History of Native Education and Policy Development

625 Race Relations in Education

English
150 Multicultural America

276 Introduction to American Indian Literature: (Subtitle)

277 Introduction to Ethnic Minority Literature: (Subtitle)

280 Introduction to Asian-American Literature: (Subtitle)
281 Introduction to African-American Literature: (Subtitle)
372 American Indian Literature: (Subtitle)
373 Survey of Ethnic Minority Literature
374 Survey of U.S. Latino/a Literature
375 Survey of Asian-American Literature
376 Survey of African-American Literature to 1930
377 Survey of African-American Literature, 1930 to the Present
463 Major Figures in African-American Literature: (Subtitle)
517 Studies in African-American Literature: (Subtitle)
519 Studies in Irish-American Literature: (Subtitle)
520 Studies in American Indian Literature: (Subtitle)
521 Studies in Ethnic Minority Literature: (Subtitle)
523 Studies in U.S. Latino/a Literature: (Subtitle)
524 Studies in Asian-American Literature: (Subtitle)
624 Seminar in Modern Literature: "After Beckett - Contemporary Anglo-American Drama" subtitle
631 Seminar in African-American Literature: (Subtitle)
632 Seminar in American Indian Literature: (Subtitle)

**Film**
150 Multicultural America

**Geography**
114 Geography of Minorities in the United States

**German**
141 The German-Americans
341 Undergraduate Seminar in German-American Studies: The Germans in Wisconsin and Milwaukee

**Hebrew Studies**
252 American Jewish Community: 1654 to the Present
282 Jewish Identity in Contemporary America

**History**
150 Multicultural America
229 History of Race, Science, and Medicine in the United States
262 North American Indian History to 1887
263 North American Indian History Since 1887
266 Race, Racial Thought, and Prejudice in the United States
267 The History of Latinos in the United States
269 Asian Americans in Historical Perspective
404 Topics in American History: (with appropriate subtitle)
435 Ethnic America to 1880
436 Immigrant America Since 1880
439 The Italian-American Experience in the United States
445 Black Americans from Slavery to Freedom
446 Black Americans Since the Civil War
447 History of the Black Family in America
470 Recent American History: (with appropriate subtitle)
473 History of Wisconsin Indians
474 Topics in North American Indian History: (Subtitle)
480 The Immigrant Experience: (with appropriate subtitle)

Italian
242 Topics in Italian American Studies: (Subtitle)
243 Topics in Italian American Film: (Subtitle)

Jewish
101 Jewish Culture in America: History, Literature, Film
210 Jewish and Ethnic Narratives and Identities in Media
260 Negotiating Religion and Nationalism: Jewish Experience in Europe and the Middle East

Journalism, Advertising, and Media Studies
450 Race and Ethnicity in the Media

Latino Studies
101 Introduction to Latino Studies

Philosophy
271 Philosophical Traditions: "Western Great Lakes American Indian Philosophy" subtitle

Political Science
215 Ethnicity, Religion, and Race in American Politics

Sociology
193 Freshman Seminar: "Latinos in the City"; "Buffalo to Bingo: Changing American Indian Societies" subtitles
Students also may earn a Committee Interdisciplinary Major in comparative ethnic studies. Anyone interested in the major or certificate should register with the Comparative Ethnic Studies Coordinator by the beginning of his/her junior year, at the latest.

The program is administered by the College of Letters and Science interdepartmental Comparative Ethnic Studies Advisory Committee.

**Courses**
The Department of Foreign Languages and Literature was formed in 1996. The department teaches modern and ancient languages, their literature, and the linguistic and philological study of these languages. The broad departmental structure encourages the development of cross-disciplinary academic undertakings.

**Courses**
Foreign Languages and Literature (FLL)

Arabic

The Department of Foreign Languages and Literature offers a minor in Arabic focused on the acquisition of language skills. A sequence of Arabic courses may be used to satisfy the foreign language requirement of the L&S degree. Additionally, Arabic courses may be of particular interest to students in the certificate in Middle Eastern and North African studies, the international studies major, the linguistics major, and the global studies degree program.

Course of Study: Minor in Arabic

The minor in Arabic consists of a minimum of 18 credits, with the following courses (or equivalents) required:

- ARABIC 201 Third Semester Arabic (or equivalent) 3
- ARABIC 202 Fourth Semester Arabic (or equivalent) 3
- ARABIC 301 Fifth Semester Arabic (or equivalent) 3
- ARABIC 302 Sixth Semester Arabic (or equivalent) 3

An additional upper-level language course, at least 3 credits, to be met in one of the following ways:

- ARABIC 489 Internship 3
- ARABIC 497 Study Abroad 3
- ARABIC 499 Ad Hoc 3
- ARABIC 699 Independent Reading 3

Retro credits earned at the 200-level or above may count toward the minor. Students who begin their Arabic studies in higher-level courses may need to take additional credits, approved by the Arabic language coordinator, to reach a minimum of 18 credits in Arabic.

A minimum of nine credits must be taken at the 300-level or above in residence at UWM. Students entering with no previous Arabic language experience should enroll in Arabic 101. Students entering with previous knowledge of or high school preparation in Arabic, or transfer students who have studied Arabic in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Arabic program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits, to a maximum of 16 credits, for the courses leading to the one into which they placed.

Courses

Arabic (ARABIC)

Chinese

The Department of Foreign Languages and Literature offers both a Chinese major through the Committee Interdisciplinary Major and a minor in Chinese. Chinese language courses will satisfy the foreign language requirement of the L&S degree. Courses in Chinese also may be of interest to students pursuing the Asian studies certificate, the international studies major, and the Bachelor of Arts in Global Studies.

Course of Study: Major

The Chinese Language and Culture major requires completion of 30 credits in approved Chinese and related courses.
Students in the major must complete the fifth- through eighth-semester Chinese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced level (300 and above) taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Chinese. The College requires that students attain at least a 2.5 GPA on all major credits attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work.

The following are required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
<td>3</td>
</tr>
</tbody>
</table>

Students whose language skills allow them to begin their study of Chinese beyond the fifth semester course must discuss with the advisor appropriate substitute courses in order to complete the required 30 credits.

One of the following three courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLL 699</td>
<td>Independent Study (Students must enroll for 3 cr.)</td>
<td>1-3</td>
</tr>
<tr>
<td>CHINESE 330</td>
<td>Chinese Language and Culture (in process)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone course:

The following course serves as the capstone for the major and satisfies the research requirement of the L&S degree.

FLL 699 Independent Study (Students must enroll for 3 cr.) 1-3

Electives:

Students select additional courses from the following approved electives to reach a total of 30 credits.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 480</td>
<td>Chinese Painting</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 481</td>
<td>Topics in Chinese Art</td>
<td>1-3</td>
</tr>
<tr>
<td>CHINESE 110</td>
<td>Chinese Popular Culture (in process)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 130</td>
<td>Business Chinese: Language, Culture, and Business Practice (in process)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 160</td>
<td>A Taste of China: Learning Chinese Culture and Society Through Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 200</td>
<td>Chinese Calligraphy</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies Through Film</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 330</td>
<td>Contemporary Language and Culture (in process) (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 489</td>
<td>Internship in Chinese, Upper Division</td>
<td>1-3</td>
</tr>
<tr>
<td>CHINESE 497</td>
<td>Study Abroad (highly encouraged)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 699</td>
<td>Independent Reading</td>
<td>1-3</td>
</tr>
<tr>
<td>COMPLIT 192</td>
<td>Freshman Seminar: &quot;Secrets of Chinese Cinema&quot; subtitle</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: &quot;Chinese Literature Before the 20th Century&quot; subtitle</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: &quot;Modern Chinese Literature&quot; subtitle</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 362</td>
<td>Transnational Asian Cinema: “New Chinese Cinema” subtitle</td>
<td>3</td>
</tr>
<tr>
<td>COMPLIT 363</td>
<td>Chinese Literature in the Global Context</td>
<td>3</td>
</tr>
<tr>
<td>ECON 193</td>
<td>First-Year Seminar: “Growth and Development in China, Japan, and Korea” subtitle</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 316</td>
<td>World Cinema: &quot;Hong Kong Cinema&quot; subtitle</td>
<td>3</td>
</tr>
<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
<td>3</td>
</tr>
<tr>
<td>LINGUIS 200</td>
<td>Aspects of Language: &quot;Introduction to Chinese Linguistics&quot; subtitle (in process)</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 314</td>
<td>Chinese Politics and Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>HIST 269</td>
<td>Asian Americans in Historical Perspective</td>
<td>3</td>
</tr>
</tbody>
</table>
Study Abroad
Five courses (minimum 15 cr.) from the approved list. At least 6 cr. must be selected from courses focusing on world/global/international cinema, selected from ENGLISH 316, FILM STD 412, or other appropriate courses approved by the coordinator. The following is a partial list. Other variable content courses with appropriate subtitles may be approved on a semester-by-semester basis to count toward the major. See the list published in the Schedule of Classes under affiliated Film Studies courses, the Film Studies website, or the program advisor.

Course of Study: Minor
The minor in Chinese consists of 19 credits distributed as follows:

CHINESE 201 Third Semester Chinese 5
CHINESE 202 Fourth Semester Chinese 5
CHINESE 301 Fifth Semester Chinese 3
CHINESE 302 Sixth Semester Chinese 3

An additional, upper-level, 3-credit language course selected from the following:

CHINESE 310 Business Chinese 3
CHINESE 401 Seventh Semester Chinese 3
CHINESE 402 Eighth Semester Chinese 3
CHINESE 497 Study Abroad 3
CHINESE 699 Advanced Independent Study 3

Related Programs
Asian Studies Certificate Program
Global Studies Degree
International Studies Major

Courses: Chinese (CHINESE)

Classics

Croatian

See Slavic Languages.

Dutch

See German.

German

Greek

See Classics.
Japanese

The Department of Foreign Languages and Literature offers both a Japanese major through the Committee Interdisciplinary Major and a minor in Japanese. Japanese language courses will satisfy the foreign language requirement of the L&S degree. Courses in Japanese also may be of interest to students pursuing the Asian studies certificate, the international studies major, and the Bachelor of Arts in Global Studies.

Course of Study: Major

The Japanese Language and Culture major requires completion of 30 credits in approved Japanese and related courses. Students in the major must complete the fifth- through eighth-semester Japanese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced (300 and above) level taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Japanese. The College requires that students attain at least a 2.5 GPA on all major credits attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work.

The following are required:

JAPAN 301 Fifth Semester Japanese 3
JAPAN 302 Sixth Semester Japanese 3
JAPAN 401 Seventh Semester Japanese 3
JAPAN 402 Eighth Semester Japanese 3

Students whose language skills allow them to begin their study of Japanese beyond the fifth semester course must discuss with the advisor appropriate substitute courses in order to complete the required 30 credits.

One of the following four courses:

JAPAN 330 Japanese Language and Culture 3
JAPAN 331 Reading Japanese Short Stories 3
JAPAN 361 Translating Japanese Media 3
JAPAN 441 Business Japanese 3

Capstone course: The following course serves as the capstone for the major and satisfies the research requirement of the L&S degree.

JAPAN 500 Research and Writing in Japanese (Japanese majors enroll for 3 cr.) 1-3

Electives: Students select additional courses from the following approved electives to reach a total of 30 credits. At least one course must be taken outside the JAPAN curricular area.

ANTHRO 325 Japanese Culture and Society 3
ARTHIST 383 Japanese Art and Architecture 3
ARTHIST 482 Topics in Non-Western Art History: “Japanese Architecture” subtitle 3
ENGLISH 316 World Cinema: “Japanese Cinema” subtitle 3
HIST 394 History of Japan to 1600 3
HIST 395 History of Japan Since 1600 3
HIST 397 Postwar Japan 3
JAPAN 110 Japanese Popular Culture 3
JAPAN 200 Japanese Culture and Its Effect on Language 3
JAPAN 220 Introduction to Japanese Food Studies 3
JAPAN 297 Study Abroad 3
JAPAN 310 Enhanced Knowledge and Skills for the Japanese Language Proficiency Test 3
JAPAN 321 Analyzing Japanese Film Remakes 3
JAPAN 330 Japanese Language and Culture (if not selected above) 3
JAPAN 331 Reading Japanese Shore Stories (if not selected above) 3
JAPAN 361 Translating Japanese Media (if not selected above) 3
JAPAN 397 Study Abroad 3
Introduction to Translation: Japanese to English 3
Business Japanese (if not selected above) 3
Internship in Japanese, Upper Division 3
Study Abroad 3
Research and Research Writing in Japanese 3
Advanced Independent Study 1-3

Study Abroad
Students are strongly encouraged to study abroad. Up to 12 credits from study abroad programs will be accepted for the major. Any language credits acquired from study abroad must not duplicate language credits acquired from classes taken at UWM.

Course of Study: Minor
The minor in Japanese has the acquisition of language proficiency as its primary objective. Students take language courses through the third-year level, but the minor also allows coursework in Japanese culture, history, and politics. A minimum of 9 credits must be taken at the 300-level or above. A minimum of 9 credits must be taken in residence at UWM. Students entering with no previous Japanese language experience should enroll in JAPAN 101. Students entering with previous knowledge of or high school preparation in Japanese, or transfer students who have studied Japanese in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Japanese program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits*, to a maximum of 16 credits, for the courses leading to the one into which they are placed. The college requires that students attain at least a 2.5 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

Those who are able to begin their study of Japanese beyond the third-semester level will take additional elective credits, approved by the Japanese language coordinator, to complete at least 18 credits in the minor. Students must complete a minimum of 12 credits in language courses. The following (or equivalent or exemption) are required:

JAPAN 201 Third Semester Japanese 3
JAPAN 202 Fourth Semester Japanese 3
JAPAN 301 Fifth Semester Japanese 3
JAPAN 302 Sixth Semester Japanese 3

At least 3 additional credits, selected from courses in Japanese above 102 or from the following:

ANTHRO 325 Japanese Culture and Society 3
ARTHIST 383 Japanese Art and Architecture 3
ENGLISH 316 World Cinema (Japanese subtitle) 3
HIST 394 History of Japan to 1600 3
HIST 395 History of Japan Since 1600 3
HIST 397 Postwar Japan 3
POL SCI 313 Japanese Politics and Foreign Policy 3

* Retroactive credits earned at the 200-level or above may count toward the minor.

Related Programs
Asian Studies Certificate Program
Global Studies Degree
International Studies Major

Courses: Japanese (JAPAN)

Korean

For students interested in studying Korean to satisfy the foreign language requirement of the L&S degree, the Asian
Studies Certificate, and/or the International Studies major, the Department of Foreign Languages and Literature offers a four-semester sequence in Korean.

Courses: Korean (KOREAN)

Latin

See Classics.

Polish

See Slavic Languages.

Russian

See Slavic Languages.

Scandinavian Studies


Serbian

See Slavic Languages.

Ukrainian

See Slavic Languages.

Swedish

See Scandinavian Studies.

Yiddish

See Hebrew Studies.

FLL Faculty and Staff

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Related Programs

Ancient Mediterranean Studies Certificate Program
Asian Studies Certificate Program
Global Studies Degree
International Studies Major
Russian and East European Studies Certificate Program

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The study of languages has been the fundamental basis of liberal education since the Renaissance, and it is crucial to learning in the 21st century as technologies create global channels of communication. This department, therefore, is committed to promoting the study of at least one second language in order to enable students to participate in the world of international communities and, moreover, to appreciate and contribute to a broad spectrum of diverse cultures. The Department of French, Italian, and Comparative Literature offers a complete sequence of courses in two languages and in the literatures and cultures of the world.

The department follows the Credit for Demonstrated Equivalent Preparation policy (see the Admission section of this catalog or the chair of the department).

**French**

Students who have had no previous training in French should enroll in French 103 (or an equivalent course). Those who have studied French in high school should take the placement examination in French, administered by the Testing Office, before enrolling; the exam is required for those who have had two or more years of high school French. After consultation with the department, a student may enroll in a course one level higher or lower than the one recommended by the placement examination.

Those who wish to become French majors can do so, once they have completed French 204 or equivalent, by registering with the French major advisor. To be accepted and to continue as majors, they must maintain at least a 2.50 GPA in French courses attempted at UWM. In addition, students must attain a 2.5 GPA in all major credits attempted, including any transfer work. French 213, "Grammar for Students of Foreign Languages," is recommended for French majors and minors. Students also are encouraged to take courses in other literatures and Comparative Literature.

**Course of Study: French Major**

The major in French consists of 27 credits, at least 15 numbered above 303 taken in residence at UWM. The Department offers two options: a French and Francophone option and a French Translation option. Both options require the following credits:

1. 9 credits in skills courses: French 324, 325, and 332. (These courses may be taken in any order, including simultaneously; however, the department recommends taking them in the order listed here.)

2. 6 credits in the following: French 428, 429, 430. (The student satisfies the research requirement of the College of Letters & Science by taking any one of the preceding courses at UWM or by taking any of the following...
courses at UWM: French 431, 432, 433, 450, 510, or 592. Students taking any of these courses and wishing to fulfill the research requirement should inform their instructor at the beginning of the semester in which they take the course.)

The **French and Francophone** option requires 12 additional credits in courses numbered above 350 for a total of at least 27 credits in advanced-level French courses.

The **French Translation** option requires 12 additional credits in courses numbered above 350 for a total of at least 27 credits, including the following:

FRENCH 415  Introduction to Translation: French to English

*One of the following two courses:*

FRENCH 465  Introduction to Translation: English to French

FRENCH 515  Seminar in Advanced Translation: French to English

One elective course in French numbered above 350

One elective course in literature in French numbered above 400

All majors are required to pass an advanced language proficiency examination, which they are advised to take during the semester in which they complete 18 credits in the major.

**Course of Study: French Minor**

The minor in French consists of a minimum of 18 credits as follows:

- 204 and 303 or equivalent (6 cr.);
- 12 credits in French literature, language, and culture above the 300 level;
- 12 credits numbered 300 or above taken in residence at UWM; and
- 2.5 GPA on all French credits attempted at UWM as well as a 2.5 GPA on all credits attempted for the minor, including any transfer credits.

**Course of Study: Business French Minor**

The business French minor consists of a minimum of 18 credits taken in one of two tracks. The curriculum includes courses in business administration for non-business students and courses in the practical and professional use of the French language as well as understanding of Francophone culture for business students. Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

**Non-Business Student Track**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 311</td>
<td>French for International Business/Professional Communication: Oral Emphasis</td>
<td>3</td>
</tr>
<tr>
<td>FRENCH 361</td>
<td>French for International Business/Professional Communication: Writing Focus</td>
<td>3</td>
</tr>
</tbody>
</table>
Either of the following two courses:

BUS ADM 201  Introduction to Financial Accounting  3
BUS ADM 360  Principles of Marketing  3

One of the following courses in cultures of the French-speaking world:

FRENCH 324 (327)*  Contemporary French Language and Culture  3
FRENCH 430  Reaction and Innovation: French Culture of the 19th and 20th Centuries  3
FRENCH 432  Seminar in French and Francophone Cultures: (Subtitle)  1-3
FRENCH 450  Institutions and Culture of Contemporary France  3
FRENCH 451 (351)*  Cinema of the French-Speaking World: (Subtitle)  3

At least 3 cr. in the following courses in French oral and written communication:

FRENCH 210  French Immersion: Intermediate  1-2
FRENCH 303*  Conversation and Composition: Intermediate Level  3
FRENCH 324*  Contemporary French Language and Culture (if not selected above)  3
FRENCH 325  Intensive Grammar and Usage  3
FRENCH 410  French Immersion: Advanced  1-2
FRENCH 411  Conversation and Composition: Advanced Level  2-3
FRENCH 415 (425)  Introduction to Translation: French to English  3

Business Student Track

FRENCH 203  Third-Semester French  3
FRENCH 204  Fourth-Semester French  3

Note: Students who place into 303 (fifth semester) and above, and therefore are exempt from taking 203 and 204, are expected to take 6 additional credits in language and culture at the 300 level and above.

FRENCH 311  French for International Business/Professional Communication: Oral Emphasis  3
FRENCH 361  French for International Business/Professional Communication: Writing Focus  3

One of the following courses in cultures of the French-speaking world:

FRENCH 324*  Contemporary French Language and Culture  3
FRENCH 430  Reaction and Innovation: French Culture of the 19th and 20th Centuries  3
FRENCH 432  Seminar in French and Francophone Cultures: (Subtitle)  1-3
FRENCH 450 Institutions and Culture of Contemporary France 3
FRENCH 451* Cinema of the French-Speaking World: (Subtitle) 3

At least 3 cr. in the following courses in French oral and written communication:

FRENCH 210 French Immersion: Intermediate 1-2
FRENCH 303* Conversation and Composition: Intermediate Level 3
FRENCH 324* Contemporary French Language and Culture (if not selected above) 3
FRENCH 325 Intensive Grammar and Usage 3
FRENCH 410 French Immersion: Advanced 1-2
FRENCH 411 Conversation and Composition: Advanced Level 2-3
FRENCH 415 (425) Introduction to Translation: French to English 3

* These courses satisfy GER-HU distribution requirements.

Substitutions for some course requirements are possible and may include internships with firms doing business in French-speaking countries (including Canada). Students also have the option of completing a Certificate in Business French offered by the Paris Chamber of Commerce. For further information, consult the French Program Coordinator.

Italian

The Italian program offers a rich array of language classes at all levels as well as courses in culture and civilization, film, and literature. Students entering with previous knowledge of or high school preparation in Italian, or transfer students who have studied Italian in other colleges, are assigned to courses on the basis of a departmental placement exam.

Italian 213, "Grammar for Students of Foreign Languages," is recommended for Italian majors and minors. Students also are encouraged to take courses in other literatures and Comparative Literature.

Course of Study: Italian Major

Students who wish to become Italian majors may do so, once they have completed Italian 104 or equivalent, by registering with the Italian major advisor. To be accepted and to continue as majors, they must maintain at least a 2.50 GPA in all Italian courses attempted at UWM. In addition, the College requires students to attain a 2.5 GPA in all major credits attempted, including any transfer work.

The major in Italian may be completed in one of the following options:

Option A (Italian). 24 credits in Italian courses at the 300-level and above, at least 15 taken in residence at UWM. These must include:

- Italian 311, 321, 322, and 457*;
- 6 additional credits in advanced literature courses; and
- 6 credits in Italian electives numbered 300 and above.

Option B (Italian Studies). 38 credits distributed as follows:

- 14 credits of first- and second-year Italian language;
- Italian 257 or 258;
Italian 457*;
6 additional credits in Italian electives; and
12 additional credits selected from Italian and/or crosslisted courses. (See crosslisted courses at end of Italian courses; see also Schedule of Classes for specific semester offerings.)

At least 15 of the 38 credits must be earned in courses at the 300 level and above taken in residence at UWM.

* Both options of the major require that students complete a research experience. To fulfill this requirement, students must complete, with a passing grade, Italian 457, Topics in Italian Literature and Culture in Translation: (Subtitle). Students will conduct independent research related to the general theme of the course, presenting their research in a final 10- to 12-page paper.

Course of Study: Italian Minor

The Italian minor requires 18 credits distributed as follows: 6 credits in advanced language courses (Italian 311 and 312); 12 additional credits within the Italian curricular area, including courses in language (beyond the first year), literature, film, culture, and civilization. At least 9 credits must be taken at the 300 level or above in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

Comparative Literature

Comparative literature is concerned with the study of literature from a transnational, interdisciplinary perspective. The exciting range of courses trains students to analyze literatures from around the globe, as well as their relationships to other arts such as film, painting, and music; to such disciplines as history, philosophy, and anthropology; and to social, cultural, and political movements. While working across national borders, courses (taught in English) examine diverse literary genres and movements, historical periods, and topics related to gender, ethnicity, religion, and race, among other subjects.

Course of Study: Comparative Literature Major

The program welcomes prospective majors who have maintained a minimum 2.50 GPA in their language and literature courses during the freshman and sophomore years. Prospective majors should meet with the Comparative Literature coordinator to declare the major. Students are assigned a Comparative Literature advisor in their primary areas of interest. The advisor helps students design plans of study tailored to their particular interests, academic goals, and professional aspirations.

Comparative literature majors are encouraged to take additional literature courses offered in languages other than English when possible. They also are encouraged to take additional courses outside of the program in the analysis of literature and other arts. In many cases, these courses may be counted toward the comparative literature major.

Credit Requirements

A total of 36 credits is required for the major, including CompLit 207 and 208 and at least 24 credits at the advanced level (numbered 300 and above). At least 15 of the advanced credits must be taken in residence at UWM. Students may count toward the major up to 6 credits in CompLit 133, 135, 230, 231, 232, and 233 selected in consultation with their advisor. All CompLit courses and approved electives that a student takes will count in calculating the major GPA. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work.

The department offers two options for the major. Both major options require that, in their senior year, students complete a research project that focuses on major theoretical and critical trends in comparative literature. Students may fulfill this requirement by completing one of the following courses.

COMPLIT 463 Literary Criticism: Major Authors
Option A. This option is recommended particularly for students who intend to pursue graduate work in comparative literature.

Option A students must complete the following:

1. CompLit 207 and 208, 6 cr.;

2. CompLit courses numbered 300 and above, including either CompLit 463 or 464, 12-15 cr.;

3. Advanced literature courses (numbered 300 and above) offered in a foreign language, 9-12 cr.; and

4. Electives selected from approved courses (including CompLit 133, 135, 230, 231, 232, and 233) to reach a total of 36 cr.

Option B. This option is offered for students with little if any training in a foreign language. Though such work normally is not considered as suitable preparation for graduate work in comparative literature, Option B offers training that is useful and applicable in many academic and professional fields.

Option B students must complete the following:

1. CompLit 207 and 208, 6 cr.;

2. CompLit courses numbered 300 and above, including either CompLit 463 or 464, 15 cr.;

3. Advanced courses (300 and above) in the analysis of literature or the other arts offered by CompLit or by other related departments and programs, with the approval of the CompLit advisor. This includes literature-in-translation courses offered by foreign language programs as well as courses in Art History, English, Film Studies, Philosophy, and Religious Studies that have as their focus the study of literature and/or the other arts, 9 cr.; and

4. Electives selected from CompLit 133, 135, 230, 231, 232, 233, and CompLit courses numbered 300 and above to reach a total of 36 cr.

Course of Study: Comparative Literature Minor

The minor requires 18 credits, including CompLit 207 and 208; one of CompLit 133, 135, or a 200-level thematic course; and 9 credits at the advanced level (numbered 300 or above), which must be taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

Courses

Comparative Literature (COMPLIT)

French (FRENCH)

Related Course
The following course offered by the Department of Linguistics may be of interest to students concentrating in French. It may not, however, be used to fulfill curricular requirements of the undergraduate major in French.

LINGUIS 470  Historical/Comparative Linguistics  3

**Italian (ITALIAN)**

**Crosslisted Courses**

The following courses offered by other departments may be used to fulfill the curricular requirements of the undergraduate major in Italian Option B (Italian Studies).

- **ARTHIST 333**  High Renaissance Art in Italy  3
- **ARTHIST 431**  Renaissance Architecture in Italy  3
- **ARTHIST 447**  Topics in Early Modern Art: "Women and Art in Italy: 1350-1700" subtitle  3
- **COMPLIT 230**  Literature and Society: "Narratives of Shelter in WWII Italy" subtitle  3
- **COMPLIT 231**  Literature and Religion: "Italians and the Holocaust" subtitle  3
- **HIST 325**  The Renaissance  3

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Web Home Pages:
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Geography

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Geography is the study of the earth as created by natural forces and modified by human actions. It analyzes spatial patterns and locational associations of human and physical environments. It is concerned with people's interrelationships with their environments now, in the past, and in the future. The Department of Geography works closely with the Cartography and Geographic Information Science (GIS) Center and the American Geographical Society Library, one of the largest holdings of geographical materials in the world. For the purpose of satisfying various degree requirements, some courses in geography are classified as natural science while others are classified as social science. Consult the current L&S degree requirements website (www.uwm.edu/letsci/requirements/2006/natsci.cfm) to determine which courses count as natural science.

Course of Study: Major

Students must meet with the department’s undergraduate advisor to declare geography as a major. All majors must complete the 24- or 25-credit core curriculum and the additional requirements as defined in one of the 5 tracks: 1) geographic information, 2) urban, 3) environmental, 4) physical systems, or 5) globalization and development. Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. The physical systems track is recommended for Bachelor of Science students. In satisfying their major requirements, all students must complete at least 37 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the GPA. Majors must have a 2.5 GPA in all geography credits attempted at UWM. In addition, students must attain a 2.5 GPA in all major credits attempted, including any transfer work.

CORE CURRICULUM

All geography majors must complete the following 24-25 credits in geography:

a) One of the following introductory courses in human geography, 3 cr.:

Geog 105 Introduction to Human Geography
Geog 110 The World: Peoples and Regions
Geog 114 Geography of Minorities in the United States
Geog 140 Our Urban Environment: Introduction to Urban Geography
(Students in the Urban Track are required to take Geog 140.)

b) One of the following introductory courses in physical or environmental geography, 3 cr.:

Geog 120 Our Physical Environment
Geog 125 Introduction to Environmental Geography
(Students in the Physical Systems Track must take Geog 120; those in the Environmental Track must take Geog 125.)

c) One of the following mid-level (200 or above) regional or world geography courses, 3 cr.:

Geog 213 Geography of Asia
Geog 214 Wisconsin
Geog 216 (510) Geography of United States and Canada
Geog 231 (130) Geography of Islam
Geog 309 Nationalities and Nations of the World
Geog 315 Economic Geography
Geog 330 Europe: East and West
Geog 400 Geography of Population
Geog 410 Gendered Geographies
Geog 421 Geography of Latin America
Geog 470 Geography of South Asia

d) Geog 215 Introduction to Geographic Information Science, 3 cr.

e) Geog 247 Quantitative Analysis in Geography, 3 cr.

f) One of the following upper-level techniques courses, 3-4 cr.:
Geog 403 Remote Sensing: Environmental and Land Use Analysis
Geog 405 Cartography
Geog 525 Geographic Information Science
Geog 547 Spatial Analysis
(Students in the Geographic Information Track must take Geog 525.)

g) Geog 600 Perspectives on Geography, 3 cr. (satisfies L&S research requirement)

h) One of the following fieldwork courses, 3 cr.:
Geog 650 Geography Field Work
Geog 654 Tropical Field Course

With approval of the full department faculty before enrolling, students also can fulfill this requirement by completing a minimum of 90 hours of field research in one of the following courses:
Geog 489 Internship in Geography, Upper Division
Geog 497 Study Abroad

**MAJOR TRACKS**

**Geographic Information Track.** (14-15 credits within the track; 39-40 total credits to complete the major)

a) Geog 625 Intermediate Geographic Information Science, 4 cr.

b) Two upper-level techniques courses, in addition to Geog 525, listed in requirement (f) of the core curriculum, 7-8 cr. beyond core

c) Geog 698 GIS/Cartography Internship, 3 cr.

**Urban Track.** (9 credits within the track; 37 total credits to complete the major)

a) Any two of the following urban geography courses, 6 cr.:
Geog 430 Geography of Transportation
Geog 440 City Systems and Metropolitan Development
Geog 441 Geography of Cities and Metropolitan Areas
Geog 443 Cities of the World: Comparative Urban Geography
Geog 540 Globalization and the City

b) One of the following courses on urban environments, 3 cr.:
Geog 464 Environmental Problems
Geog 520 Physical Geography of the City
Geog 564 Urban Environmental Change and Social Justice

Environmental Track. (9 credits within the track; 37 total credits to complete the major)

Any 3 of the following mid- or upper-level environmental geography courses, 9 cr.:
Geog 350 Conservation of Natural Resources
Geog 520 Physical Geography of the City
Geog 464 Environmental Problems
Geog 564 Urban Environmental Change and Social Justice

Physical Systems Track. (15 credits within the track; 40 total credits to complete the major)

Any 3 of the following physical geography courses (9 cr.)
Geog 310 General Climatology, 3 cr.
Geog 340 Biogeography, 3 cr.
Geog 415 Hydrogeography, 3 cr.
Geog 420 Methods and Principles in Land Form Geography, 3 cr.
Geog 424 Karst Geomorphology, 3 cr.
Geog 475 The Geography of Soils, 3 cr.

Electives, 6 cr. Any two upper-division (numbered 300 or above) courses approved for natural science credit that have not been selected to fulfill the above requirements. A maximum of 3 credits from outside Geography may be applied to the major.

Globalization and Development Track (9 credits within the track; 37 total credits to complete the major)

2. Geog 540: Globalization and the City, 3 cr.
3. One of the following courses in regional or world geography (in addition to the regional or world course taken to satisfy major core requirement [c] above), 3 cr.

   Regional
   Geog 213: Geography of Asia (if not selected for [c] above)
   Geog 330: Europe: East and West (if not selected for [c] above)
   Geog 421: Geography of Latin America (if not selected for [c] above)
   Geog 470: Geography of South Asia (if not selected for [c] above)

   World
   Geog 231: Geography of Islam (if not selected for [c] above)
   Geog 309: Nationalities and Nations of the World (if not selected for [c] above)
   Geog 400: Population, Environment, Development (if not selected for [c] above)
   Geog 410: Gendered Geographies (if not selected for [c] above)

If the course taken to meet core requirement c is a Regional course, then the course selected to complete requirement 3 should be a World course, or vice versa, for a total of one REGIONAL course and one WORLD
course in the major.

**Course of Study: Minor**

The geography minor requires the completion, with a GPA of 2.5 or above in all geography courses attempted at UWM, of 18 credits in geography courses, at least 9 of which must be at the 300 level or above taken in residence at UWM. In addition, students must attain a 2.5 GPA on all courses attempted in the minor, including transfer work. The following are required:

One introductory human geography course (105, 110, 113, 114, 115, 140, 170, or 213)

One introductory physical geography course (120 or 125)

One geographic analysis course (215, 225, or 405)

**Related Programs**

For the teaching major and minor, see the School of Education section of this catalog. A related special major is International Studies. Related certificate programs include Asian Studies, Latin American and Caribbean Studies, and Middle Eastern and North African Studies.

**Courses (GEOG)**

**Cross-listed Courses**

The following courses offered by the Department of Geosciences may be used to fulfill the requirements of the undergraduate major or minor in geography.

- GEO SCI 401 General Soil Science
- GEO SCI 409 Process Geomorphology
- GEO SCI 550 Soils, Landscape, and the Environment

**Faculty**

Karel Bayer, Prof. Emeritus, RNDr

**Anne Bonds, Asst. Prof., PhD**
University of Washington

Barbara Borowiecki, Prof. Emerita, PhD

**Woonsup Choi, Asst. Prof., PhD**
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**Michael J. Day, Prof., PhD, Chair**
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**Mark D. Schwartz, Distinguished Prof., PhD**  
University of Kansas

Norman R. Stewart, Assoc. Prof. Emeritus, PhD

**Kristin Sziarto, Asst. Prof., PhD**  
University of Minnesota

**Changshan Wu, Prof., PhD**  
Ohio State University

**Zengwang Xu, Asst. Prof., PhD**  
Texas A&M University

**Hyejin Yoon, Asst. Prof., PhD**  
Ohio State University

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The Department of Geosciences offers a major in geosciences leading to either the Bachelor of Arts or Bachelor of Science degree. The geology-geophysics option in the major leads to the BS degree and is designed to prepare students to enter graduate programs or to work as professional geoscientists in a wide range of disciplines, including hydrogeology, engineering geoscience, petroleum or mineral exploration and development, environmental geoscience, and other facets of geosciences. The general option in the major leads to the BA degree and is designed for students, including primary and secondary school teachers, who have a broad interest in the earth sciences. The department also offers a minor in geosciences to allow students to combine a geosciences background with other majors.

**Course of Study: Major**

All students who major in geosciences must complete at least 15 credits in geosciences courses at the advanced level (numbered 300 or above) in residence at UWM as part of the 36 advanced-level credits required for the L&S degree. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work.

**GEOLOGY-GEOPHYSICS OPTION**

The geology-geophysics option leads to a BS degree with a major in geosciences.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 301</td>
<td>Principles of Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 302</td>
<td>Elementary Petrology</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 316</td>
<td>Introduction to Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 414</td>
<td>Structural Geology (satisfies L&amp;S research requirement)</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 455*</td>
<td>Field Geology (normally taken over the summer)</td>
<td>5-8</td>
</tr>
</tbody>
</table>
**GEO SCI 511**

Stratigraphy and Sedimentation 3

* GEO SCI 455 is required but not offered at UWM. Students must enroll in a field course at another university to satisfy the requirement.

**Elective Courses.** Students must take at least 18 additional credits from Geosciences Department courses at the 300 level or above, two of which must be selected from GEO SCI 400, 401, 409, 443, 463, 464, or 563.

**Other Required Courses.** All students in the geology-geophysics option also must take the following courses:

**Mathematics**

MATH 231 & Calculus and Analytic Geometry 8

232

Students are encouraged to take Math 233 and 234.

**Chemistry**

CHEM 102 & General Chemistry and Qualitative Analysis 10

104

104

Students are encouraged to take courses in organic and physical chemistry.

**Physics**

PHYSICS 120, General Physics I & II (Non-Calculus Treatment) 10

121, 122 & 123

PHYSICS 209, Physics I & II (Calculus Treatment) 10

210, 214 & 215

Students are advised strongly to increase their scholastic breadth by selecting courses from among several subdisciplines of the geosciences, in consultation with Geosciences Department faculty.

Students who are interested in general geology are encouraged to include courses from among GEO SCI 409, 515, 520, 614, 635, 636, and 638, and to consider topics offered under 696 and 697.

Students who are interested in environmental geology or hydrogeology are encouraged to include courses from among GEO SCI 400, 401, 409, 443, 463, 464, 562, and 563.

**GENERAL OPTION**

The general option leads to a BA degree with a major in geosciences and is intended for students who seek a general introduction to geology.

**Required Courses**

GEO SCI 100 Introduction to the Earth 3
GEO SCI 102  Historical Geology  3  
GEO SCI 301  Principles of Mineralogy  3  
GEO SCI 302  Elementary Petrology  3  
GEO SCI 414  Structural Geology (satisfies L&S research requirement)  3  
GEO SCI 455*  Field Geology (normally taken over the summer)  3  
GEO SCI 511  Stratigraphy and Sedimentation  3  

* GEO SCI 455 is required but not offered at UWM. Students must enroll in a field course at another university to satisfy this requirement.

**Elective Courses.** Students must take at least 9 additional credits from Geosciences Department courses at the 300 level or above.

**Other Required Courses.** All students in the general option also must take the following:

Physics and Chemistry  9-10

At least one laboratory course in physics and one laboratory course in chemistry selected from the courses required for the Geology-Geophysics Option.

**Course of Study: Minor**

The minor consists of a minimum of 18 credits in geosciences courses, including six credits in GEO SCI 100 and 102. The remaining 12 credits must be at the 200 level or above, with at least 9 of them at the 300 level or higher taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

**Courses (GEO SCI)**

**Crosslisted Courses**

The following courses offered by the Department of Geography may be used to fulfill the requirements of the undergraduate major and minor in geosciences:

GEOG 475  Geography of Soils  3  
GEOG 653  Soils of Wisconsin Field Study Tour  2  

**Faculty**

**Julie A. Bowles, Asst. Prof., PhD**  
University of California, San Diego

**Bruce E. Brown, Assoc. Prof. Emeritus, PhD**

**Barry I. Cameron, Assoc. Prof., PhD, Chair**  
Northern Illinois University
Douglas S. Cherkauer, Prof. Emeritus, PhD
Patricia Coorough-Burke, Adjunct Instr., MS
University of Wisconsin-Milwaukee

Dyanna M. Czeck, Assoc. Prof., PhD
University of Minnesota, Minneapolis

Stephen Dornbos, Assoc. Prof., PhD
University of Southern California

David Edgington, Prof. Emeritus, PhD

Daniel Feinstein, Adjunct Asst. Prof.
U.S. Geological Society

Margaret Fraiser, Assoc. Prof., PhD
University of Southern California

Timothy J. Grundl, Prof., PhD
Colorado School of Mines
Professor, School of Freshwater Sciences

Weon Shik Han, Asst. Prof., PhD
New Mexico Institute of Mining and Technology

Mark T. Harris, Prof., PhD
Johns Hopkins University

Thomas Hooyer, Assoc. Prof., PhD
Iowa State University

John L. Isbell, Prof., PhD
Ohio State University

William F. Kean, Prof. Emeritus, PhD
J. Val Klump, Adjunct Prof., PhD
University of North Carolina
Director, Great Lakes WATER Institute

Norman P. Lasca, Prof. Emeritus, PhD

Lindsay McHenry, Assoc. Prof., PhD
Rutgers University

Gregory Mursky, Prof. Emeritus, PhD

Richard Paull, Prof. Emeritus, PhD

Peter M. Sheehan, Adjunct Prof., PhD
University of California, Berkeley
Head of Geology, Milwaukee Public Museum

Keith A. Sverdrup, Prof., PhD
University of California, San Diego
Since the acquisition of a foreign language and a basic familiarity with foreign cultures are prerequisites for a successful liberal arts education, the German program offers a structured sequence of language and conversation courses as well as a wide variety of literature and cultural history courses. The program trains students in the skills necessary for effective use of the language; provides students with a broad understanding of German, Austrian, and Swiss literature and culture; and seeks to interest the University and local community in events and developments in Germany and other German-speaking countries.

Students who have had no previous training in German should enroll in GERMAN 101. Those who have studied German in high school should take the placement exam in German, administered by the Testing Office, before enrolling; the exam is required for those who have had two or more years of high school German. After consultation with the department, a student may enroll in a course one level higher or lower than the one recommended by the placement examination.

Course of Study: German Major

The program offers a major in German that allows the student to concentrate in his/her area of interest: literature, philology, culture, or business.

All majors are required to take an advanced language proficiency exam, normally during the semester in which they complete 18 credits in the major.

The major requires a minimum of 30 credits in courses numbered 300 or above, at least 18 of them taken in residence at UWM. No more than 9 credits per semester will be accepted from study abroad. Required are GERMAN 331, 332, 333, and 334; four additional courses on the 300 to 500 level (that are taught in German); and two courses on the 600 level.

The College requires students to complete a research experience in their major. Students fulfill this requirement in the context of the following courses:

- GERMAN 488 Topics in German Philology: (Subtitle)
- GERMAN 525 Seminar in Advanced German Translation
- GERMAN 641 Seminar on the Intellectual Tradition in German Literature and Thought: (Subtitle)
- GERMAN 643 Seminar on Genre Studies: (Subtitle)
- GERMAN 645 Seminar on Representative German Authors: (Subtitle)
The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work.

Students are encouraged strongly to take at least 6 additional credits in related courses outside the program as recommended by their advisor. Majors must register with the program at the beginning of their candidacy.

**Course of Study: German Minor**

The minor in German requires a minimum of 21 credits in courses numbered 300 or above, at least 9 of them taken in residence at UWM. Four courses on the 300 level are required: GERMAN 331, 332, 333, and 334. Students must complete 9 additional credits by selecting courses from the 300 to 600 level. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

**Course of Study: Business German Minor**

The business German minor consists of a minimum of 18 credits, including the following:

- GERMAN 331 Intermediate German Grammar and Usage
- GERMAN 332 Intermediate Conversation and Composition
- GERMAN 333 Analysis of German Texts
- GERMAN 360 German for the Global World
- GERMAN 672 German for Professional Purposes

*One of the following:*

- BUS ADM 201 Introduction to Financial Accounting
- BUS ADM 330 Organizations
- BUS ADM 360 Principles of Marketing

The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work. Substitutions for some course requirements are possible and may include internships with firms doing business in German-speaking countries. Students also have the option of completing a Certificate in Business German offered by the Goethe Institut. For further information, consult the German Program Coordinator.
The Department of Foreign Languages and Literature, in cooperation with the Center for Jewish Studies, offers a major in Jewish Studies. Students may choose between two tracks: Hebrew Studies, which requires proficiency in the Hebrew language and focuses on the texts and history of early Judaism, and Jewish Cultural Studies, which focuses on modern Jewish culture and history.

Course of Study: Jewish Studies Major

All majors in Jewish Studies are required to register with the program at the beginning of their candidacy and are encouraged to speak to the program coordinator as early as possible to plan a course of study. To be accepted into the major, students who wish to pursue the Hebrew Studies track must have a GPA of 2.5 in the first two years of Hebrew language courses.

Jewish Studies majors in both tracks must complete a minimum of 15 advanced-level (numbered 300 and above) credits in L&S courses taken in residence at UWM. A GPA of 2.5 is required in courses taken for the major at UWM and in all courses that count for the major, including transfer work.

REQUIRED COURSES (BOTH TRACKS)

Core Course - 3 credits

All Jewish studies majors must complete 3 credits selected from the following:

- HIST 358 The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
- HIST 359 Introduction to Jewish History (jointly offered with Jewish 379)
- JEWISH 358 The Jews of Modern Europe: History and Culture (jointly offered with HIST 358)
- JEWISH 359 Introduction to Jewish History (jointly offered with HIST 379)

Research Requirement - 3 credits

To satisfy the College of Letters & Science research requirement, students must complete Jewish 500, Topics in Jewish Studies, which is offered every spring semester. In exceptional circumstances, and with the consent of the major coordinator, students may be permitted to fulfill their research requirement in a different course numbered 300 or above.
MAJOR TRACKS
Students must select one of the following two tracks:

Hebrew Studies Track
The Hebrew Studies track of the Jewish Studies major requires completion of four semesters of college-level Hebrew (through Hebr St 202) or equivalent preparation. Credits earned in satisfying this requirement count in the major GPA, but do not count in the 30 credits required for the major.

Students in the Hebrew Studies track are encouraged strongly to pursue study abroad in Israel and may apply transfer credits from an approved study-abroad program toward their major requirements.

In addition to satisfying the Hebrew language, core course, and research requirements, students in this track must complete 24 credits, as follows:

9 credits selected from the following:

HEBR ST 100 Introduction to Judaism
HEBR ST 231 Introduction to the Old Testament/Hebrew Bible
HEBR ST 235 The Dead Sea Scrolls and the Bible
HEBR ST 331 Topics in Biblical Literature: (all subtitles)
HEBR ST 332 Women in the Bible

Electives â€“ 15 credits from the courses not selected above and/or the following, which must include courses numbered 300 and above to reach a total of 15 advanced credits taken in residence at UWM.

* A maximum of 3 internship credits may count toward the major.

FILM ST 350 Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
HEBR ST 100 Introduction to Judaism (if not selected above)
HEBR ST 192 First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
HEBR ST 199 Independent Study (as approved by program coordinator)
HEBR ST 230 Bible Stories
HEBR ST 231 Introduction to the Old Testament/Hebrew Bible (if not selected above)
HEBR ST 235 The Dead Sea Scrolls and the Bible (if not selected above)
HEBR ST 238 Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
HEBR ST 254 Studies in Hebrew Culture: (all subtitles)
HEBR ST 261 Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
HEBR ST 289* Internship in Hebrew Studies, Lower Division (as approved by program coordinator)
HEBR ST 297 Study Abroad: (subtitle) (as approved by program coordinator)
HEBR ST 299 Ad Hoc: (all subtitles)
HEBR ST 331 Topics in Biblical Literature: (all subtitles) (if not selected above)
HEBR ST 332 Women in the Bible (if not selected above)
HEBR ST 368 (268) Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
HEBR ST 381 Honors Seminar: (subtitle) (as approved by program coordinator)
HEBR ST 397 Study Abroad: (subtitle) (as approved by program coordinator)
HEBR ST 411 Old Testament Texts: (subtitle)
HEBR ST 449 Modern Jewish Thought
HEBR ST 470 Readings in Rabbinic Literature: (all subtitles)
HEBR ST 471 Introduction to the Midrash: (all subtitles)
HEBR ST 489* Internship in Hebrew Studies, Upper Level (as approved by program coordinator)
HEBR ST 497 Study Abroad: (subtitle) (as approved by program coordinator)
HEBR ST 499 Ad Hoc: (all subtitles)
HEBR ST 597 Study Abroad: (subtitle) (as approved by program coordinator)
HEBR ST 697 Study Abroad: (subtitle) (as approved by program coordinator)
HEBR ST 699 Independent Study (as approved by program coordinator)
HIST 282 The Modern Middle East in the Nineteenth and Twentieth Centuries
HIST 358 The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
HIST 363 German: Hitler and the Nazi Dictatorship
HIST 364 The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
HIST 370 Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
HIST 401  Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
JEWISH 101  Jewish Culture in America: History, Literature, Film
JEWISH 192  First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
JEWISH 193  First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
JEWISH 199  Independent Study (as approved by program coordinator)
JEWISH 247  Jewish Art, Literature, Culture: (all subtitles)
JEWISH 261  Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
JEWISH 289*  Internship in Jewish Studies, Lower Division (as approved by program coordinator)
JEWISH 297  Study Abroad: (subtitle) (as approved by program coordinator)
JEWISH 299  Ad Hoc: (all subtitles)
JEWISH 321  The Holocaust and the Politics of Memory
JEWISH 328  The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
JEWISH 350  Global Jewish Film and Television: (all subtitles) (jointly offered with Film St 350)
JEWISH 358  The Jews of Modern Europe: History and Culture (jointly offered with Hist 368)
JEWISH 368 (268)  Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
JEWISH 371  Survey of Jewish Literature (IN PROGRESS)
JEWISH 489*  Internship in Jewish Studies, Upper Division (as approved by program coordinator)
JEWISH 497  Study Abroad: (Subtitle) (as approved by program coordinator)
JEWISH 499  Ad Hoc: (all subtitles)
JEWISH 699  Independent Study (as appr by prog coord)
POL SCI 328  The Arab-Israeli Conflict (jointly offered with Jewish 328)
POL SCI 371  Nationalism and Ethnic Conflict

Jewish Cultural Studies Track

The Jewish cultural studies track does not have a language requirement as part of the major track. Students in this track, however, complete language studies as part of their L&S degree requirements. Although no additional language courses are required beyond those required for the L&S degree, with the consent of the major coordinator, students may count up to 6 credits in appropriate language courses beyond the second semester. Students interested in considering advanced studies in Jewish Studies or a career in Jewish education are encouraged to take Hebrew. Credits earned in language courses approved by the coordinator count in the Jewish cultural studies major option GPA.

In addition to the core and research requirement courses, the following 24 credits are required:

12 credits selected from the following:

- FILM ST 350  Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
- HEBR ST 261  Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
- HEBR ST 368 (268)  Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
- HEBR ST 449  Modern Jewish Thought
- JEWISH 101  Jewish Culture in America: History, Literature, Film
- JEWISH 247  Jewish Art, Literature, Culture: (all subtitles)
- JEWISH 261  Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
- JEWISH 328  The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
- JEWISH 350  Global Jewish Film and Television: (all subtitles) (jointly offered with Film St 350)
- JEWISH 368 (268)  Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
- JEWISH 371  Survey of Jewish Literature (IN PROGRESS)
- JEWISH 421  Introduction to Yiddish Literature: (all subtitles)
- POL SCI 328  The Arab-Israeli Conflict (jointly offered with Jewish 328)

Electives â€“ a minimum of 12 credits from the following, which must include courses numbered 300 and above to reach a total of 15 advanced credits taken in residence at UWM.

- FILM ST 350  Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
- HEBR ST 100  Introduction to Judaism (if not selected above)
- HEBR ST 192  First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
- HEBR ST 199  Independent Study (as approved by program coordinator)
- HEBR ST 230  Bible Stories
- HEBR ST 231  Introduction to the Old Testament/Hebrew Bible (if not selected above)
- HEBR ST 235  The Dead Sea Scrolls and the Bible (if not selected above)
- HEBR ST 238  Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)

* A maximum of 3 internship credits may count toward the major.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEBR ST 254</td>
<td>Studies in Hebrew Culture: (all subtitles)</td>
</tr>
<tr>
<td>HEBR ST 261</td>
<td>Representing the Holocaust in Words and Images (jointly offered with Jewish 261)</td>
</tr>
<tr>
<td>HEBR ST 289*</td>
<td>Internship in Hebrew Studies, Lower Division (as approved by program coordinator)</td>
</tr>
<tr>
<td>HEBR ST 297</td>
<td>Study Abroad: (subtitle) (as approved by program coordinator)</td>
</tr>
<tr>
<td>HEBR ST 299</td>
<td>Ad Hoc: (all subtitles)</td>
</tr>
<tr>
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<td>Topics in Biblical Literature: (all subtitles) (if not selected above)</td>
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<td>HEBR ST 497</td>
<td>Study Abroad: (subtitle) (as approved by program coordinator)</td>
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<td>HEBR ST 499</td>
<td>Ad Hoc: (all subtitles)</td>
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<td>Global Jewish Film and Television: (all subtitles) (jointly offered with Film St 350)</td>
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<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
</tr>
</tbody>
</table>

**Course of Study: Jewish Studies Minor**

A minor in Jewish Studies may be of particular interest to students earning a certificate in Middle Eastern and North African Studies, Cultures and Communities, and/or Comparative Ethnic Studies, or a major in Religious Studies. The minor requires completion of a minimum of 18 credits, at least 9 of which must be taken at the 300 level or above in residence at UWM. The College requires that students earn a GPA of at least 2.50 on all credits for the minor attempted at UWM. In addition, students must earn a GPA of 2.50 on all minor credits attempted, including any transfer work.
Students can attain a minor in Jewish Studies by following one of two tracks:

**Hebrew Studies Track**
The Hebrew Studies track of the Jewish Studies minor requires the following:

Two semesters (at least 6 cr.) of Hebrew language courses. Students who test out of one or both semesters of language studies must substitute an alternative Hebr St course, selected in consultation with the program coordinator, for each semester skipped.

12 credits selected from the following, including 9 credits at the advanced level (300 and above) taken in residence at UWM:

- **FILM ST 350** Global Jewish Film and Television: (all subtitles) (jointly offered with Jewish 350)
- **HEBR ST 100** Introduction to Judaism (if not selected above)
- **HEBR ST 192** First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
- **HEBR ST 199** Independent Study (as approved by program coordinator)
- **HEBR ST 230** Bible Stories
- **HEBR ST 231** Introduction to the Old Testament/Hebrew Bible (if not selected above)
- **HEBR ST 235** The Dead Sea Scrolls and the Bible (if not selected above)
- **HEBR ST 238** Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
- **HEBR ST 254** Studies in Hebrew Culture: (all subtitles)
- **HEBR ST 261** Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
- **HEBR ST 297** Study Abroad: (subtitle) (as approved by program coordinator)
- **HEBR ST 299** Ad Hoc: (all subtitles)
- **HEBR ST 331** Topics in Biblical Literature: (all subtitles) (if not selected above)
- **HEBR ST 332** Women in the Bible (if not selected above)
- **HEBR ST 368** Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
- **HEBR ST 381** Honors Seminar: (subtitle) (as approved by program coordinator)
- **HEBR ST 397** Study Abroad: (subtitle) (as approved by program coordinator)
- **HEBR ST 411** Old Testament Texts: (subtitle)
- **HEBR ST 449** Modern Jewish Thought
- **HEBR ST 470** Readings in Rabbinic Literature: (all subtitles)
- **HEBR ST 471** Introduction to the Midrash: (all subtitles)
- **HEBR ST 497** Study Abroad: (subtitle) (as approved by program coordinator)
- **HEBR ST 499** Ad Hoc: (all subtitles)
- **HEBR ST 597** Study Abroad: (subtitle) (as approved by program coordinator)
- **HEBR ST 697** Study Abroad: (subtitle) (as approved by program coordinator)
- **HEBR ST 699** Independent Study (as approved by program coordinator)
- **HIST 282** The Modern Middle East in the Nineteenth and Twentieth Centuries
- **HIST 358** The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
- **HIST 363** German: Hitler and the Nazi Dictatorship
- **HIST 364** The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
- **HIST 370** Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
- **HIST 379** Introduction to Jewish History (jointly offered with Jewish 379)
- **HIST 401** Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
- **JEWISH 101** Jewish Culture in America: History, Literature, Film
- **JEWISH 192** First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
- **JEWISH 193** First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
- **JEWISH 199** Independent Study (as approved by program coordinator)
- **JEWISH 247** Jewish Art, Literature, Culture: (all subtitles)
- **JEWISH 261** Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
- **JEWISH 297** Study Abroad: (subtitle) (as approved by program coordinator)
- **JEWISH 299** Ad Hoc: (all subtitles)
- **JEWISH 321** The Holocaust and the Politics of Memory
- **JEWISH 328** The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
- **JEWISH 350** Global Jewish Film and Television: (all subtitles) (jointly offered with Film St 350)
- **JEWISH 358** The Jews of Modern Europe: History and Culture (jointly offered with Hist 358)
- **JEWISH 368** Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
- **JEWISH 371** Survey of Jewish Literature (IN PROGRESS)
- **JEWISH 379** Introduction to Jewish History (jointly offered with Hist 379)
- **JEWISH 421** Introduction to Yiddish Literature: (all subtitles)
JEWISH 497 Study Abroad: (subtitle) (as approved by program coordinator)
JEWISH 499 Ad Hoc: (all subtitles)
JEWISH 500 Topics in Jewish History: (all subtitles)
JEWISH 699 Independent Study (as approved by program coordinator)
POL SCI 328 The Arab-Israeli Conflict (jointly offered with Jewish 328)
POL SCI 371 Nationalism and Ethnic Conflict

**Jewish Cultural Studies Track**

The Jewish cultural studies track of the Jewish Studies minor requires 18 credits, including 9 credits at the advanced level (300 and above) taken in residence at UWM, distributed as follows:

**One of the following:**

- HIST 358 The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
- HIST 379 Introduction to Jewish History (jointly offered with Jewish 379)
- JEWISH 358 The Jews of Modern Europe: History and Culture (jointly offered with History 358)
- JEWISH 379 Introduction to Jewish History (jointly offered with History 379)

**Two courses (6 credits) selected from the following:**

- FILM ST 350 Global Jewish Film and Television: (all subtitles) (Jointly offered with Jewish 350)
- HEBR ST 261 Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
- HEBR ST 368 (268) Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
- JEWISH 101 Jewish Culture in America: History, Literature, Film
- JEWISH 247 Jewish Art, Literature, Culture: (all subtitles)
- JEWISH 261 Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
- JEWISH 328 The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
- JEWISH 350 Global Jewish Film and Television: (all subtitles) (jointly offered with Film St 350)
- JEWISH 368 (268) Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
- POL SCI 328 The Arab-Israeli Conflict (jointly offered with Hebr St 368)

**Three courses (9 credits) selected from the following:**

- HEBR ST 100 Introduction to Judaism (if not selected above)
- HEBR ST 192 First-Year Seminar: (with appropriate subtitle) (contact program coordinator)
- HEBR ST 199 Independent Study (as approved by program coordinator)
- HEBR ST 230 Bible Stories
- HEBR ST 231 Introduction to the Old Testament/Hebrew Bible (if not selected above)
- HEBR ST 235 The Dead Sea Scrolls and the Bible (if not selected above)
- HEBR ST 238 Topics in Hebrew/Jewish Literature, Art, and Culture: (all subtitles)
- HEBR ST 254 Studies in Hebrew Culture: (all subtitles)
- HEBR ST 261 Representing the Holocaust in Words and Images (jointly offered with Jewish 261)
- HEBR ST 297 Study Abroad: (subtitle) (as approved by program coordinator)
- HEBR ST 299 Ad Hoc: (all subtitles)
- HEBR ST 331 Topics in Biblical Literature: (all subtitles) (if not selected above)
- HEBR ST 332 Women in the Bible (if not selected above)
- HEBR ST 368 (268) Jewish and Christian Responses to the Holocaust (jointly offered with Jewish 368)
- HEBR ST 381 Honors Seminar: (subtitle) (as approved by program coordinator)
- HEBR ST 397 Study Abroad: (subtitle) (as approved by program coordinator)
- HEBR ST 411 Old Testament Texts: (subtitle)
- HEBR ST 449 Modern Jewish Thought
- HEBR ST 470 Readings in Rabbinic Literature: (all subtitles)
- HEBR ST 471 Introduction to the Midrash: (all subtitles)
- HEBR ST 497 Study Abroad: (subtitle) (as approved by program coordinator)
- HEBR ST 499 Ad Hoc: (all subtitles)
- HEBR ST 597 Study Abroad: (subtitle) (as approved by program coordinator)
- HEBR ST 697 Study Abroad: (subtitle) (as approved by program coordinator)
- HEBR ST 699 Independent Study (as approved by program coordinator)
- HIST 282 The Modern Middle East in the Nineteenth and Twentieth Centuries
- HIST 358 The Jews of Modern Europe: History and Culture (jointly offered with Jewish 358)
- HIST 363 German: Hitler and the Nazi Dictatorship
- HIST 364 The Holocaust: Anti-Semitism and the Fate of the Jewish People in Europe, 1933-1945
HIST 370  Topics in the History of Religious Thought: (with appropriate subtitle) (as approved by program coordinator)
HIST 401  Topics in Middle Eastern History: (with appropriate subtitle) (as approved by program coordinator)
JEWISH 101  Jewish Culture in America: History, Literature, Film
JEWISH 192  First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
JEWISH 193  First-Year Seminar: (with appropriate subtitle) (as approved by program coordinator)
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JEWISH 247  Jewish Art, Literature, Culture: (all subtitles)
JEWISH 261  Representing the Holocaust in Words and Images (jointly offered with Hebr St 261)
JEWISH 297  Study Abroad: (subtitle) (as approved by program coordinator)
JEWISH 299  Ad Hoc: (all subtitles)
JEWISH 321  The Holocaust and the Politics of Memory
JEWISH 328  The Arab-Israeli Conflict (jointly offered with Pol Sci 328)
JEWISH 350  Global Jewish Film and Television: (all subtitles) (jointly offered with Film St 350)
JEWISH 358  The Jews of Modern Europe: History and Culture (jointly offered with Hist 368)
JEWISH 368 (268)  Jewish and Christian Responses to the Holocaust (jointly offered with Hebr St 368)
JEWISH 371  Survey of Jewish Literature (IN PROGRESS)
JEWISH 421  Introduction to Yiddish Literature: (all subtitles)
JEWISH 497  Study Abroad: (subtitle) (as approved by program coordinator)
JEWISH 499  Ad Hoc: (all subtitles)
JEWISH 500  Topics in Jewish History: (all subtitles)
JEWISH 699  Independent Study (as approved by program coordinator)
POL SCI 328  The Arab-Israeli Conflict (jointly offered with Jewish 328)
POL SCI 371  Nationalism and Ethnic Conflict

Related Programs

Hebrew/Jewish Studies students also may be interested in the Comparative Ethnic Studies and the Religious Studies programs as well as the certificate program in Middle Eastern and North African Studies.

Courses

Hebrew Studies (HEBR ST)

Jewish Studies (JEWISH)

Web Home Pages:
[ College of Letters & Science ]
[ Hebrew Studies ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:

Hebrew Studies
[ Foreign Languages and Literature ]
[ College of Letters & Science ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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The study of history involves all aspects of human experience throughout time. The Department of History offers a variety of courses, defined geographically, chronologically, and thematically, through which students acquire both broad and specialized knowledge of the past.

History courses are intended to transmit knowledge about various areas and periods, to address general historical problems, and to make students more capable of reading and analyzing both primary sources and secondary literature. Students learn how to collect information independently, to present material, and to construct arguments in a literate and cogent manner. The courses also are intended to make students more understanding of the complexity of human existence and the reality of human diversity, as well as more prepared to make informed and responsible decisions about issues in the world in which they live. These courses provide excellent training for professional careers in education, government, business, law, and social work, as well as advanced work in academics.

Students intending to major in history are encouraged to enroll in several 100- and 200-level courses. Students completing the required coursework for the history major earn the Bachelor of Arts degree. Students may combine a major in history with many of the certificate programs or with another departmental major.

Academic Advising

For academic advice, as well as for information on how to declare a major or minor in history, visit the undergraduate program web page of the Department of History at [www4.uwm.edu/letsci/history/undergrad](http://www4.uwm.edu/letsci/history/undergrad).

Course of Study: Major

History majors are required to take 36 credits of coursework distributed as follows:

1. At least 6 credits in European history;
2. At least 6 credits in U.S. history;
3. At least 9 credits in non-western or global history;
4. At least 3 credits in a course dealing with the period before 1500;
5. At least 18 credits in courses numbered 300 or above, of which 15 must be taken in residence at UWM;
6. At least one course in historical methods (Hist 288, 291, 293, 294, 594, 595, or 596); and
7. Hist 600 Seminar in History (meets the L&S requirement for a research experience in the major; prerequisite is Hist 288, 291, 293, 294, 594, 595, or 596). Students who complete the senior thesis (See below.) may substitute
the thesis courses for Hist 600.

History majors must maintain a 2.500 GPA in all history credits attempted at UWM and a 2.500 GPA in all history credits attempted at all institutions attended, collectively. No more than 6 of the 36 credits applied to the major may be earned in independent study courses (Hist 199 or 699). Note that in all courses taken in the major on a credit/no credit basis (whether applied to the major or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA.

*Note: Specific courses may count toward the fulfillment of more than one requirement. For example, Hist 101 (Western Civilization to 1500) counts toward the fulfillment of both requirement #1 and requirement #4.*

Students should pay particular attention to requirements #6 and #7. They will not be permitted to enroll in History 600 until after they have taken and passed one of the courses in historical methods listed under #6. This sequence may not be reversed and students cannot take both courses in the same semester. Prospective majors should fulfill the methods requirement at an early stage of their progress in the curriculum, in no case later than the next-to-last semester before they plan to graduate.

Course of Study: Minor

History minors are required to take a minimum of 18 credits of coursework distributed as follows:

1. At least 3 credits in each of the following three areas:
   a. European history
   b. U.S. history
   c. non-western or global history

2. At least 9 credits in courses numbered 300 or above taken in residence at UWM.

History minors must maintain a 2.500 GPA in all history courses attempted at UWM and a 2.500 GPA in all history credits attempted at all institutions attended, collectively. No more than 3 of the 18 credits applied to the minor may be earned in independent study courses (Hist 199 or 699). Note that in all courses taken in the minor on a credit/no credit basis (whether applied to the requirements of the minor or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA.

*Note: Specific courses may count toward the fulfillment of more than one requirement. For example, Hist 307 (The Roman Republic) counts toward the fulfillment of both requirement #1a and requirement #2.*

CATEGORIZATION OF COURSES BY GEOGRAPHIC AREA

The following lists indicate the geographic areas towards which courses count in the fulfillment of the major and minor requirements. (Note that some courses do not satisfy any of the geographic area distribution requirements and that for variable-topic courses, the geographic area is determined by the specific topic).

**European History**

HIST 101, 102, 201 through 206, 220, 226, 227, 228, 235, 236, 238, 239, 241, 242, 246, 248 through 250, 301 through 369, 371, 374, 375

**U.S. History**

HIST 150, 151, 152, 229, 243 through 245, 251, 262 through 272, 403 through 474, 654

**Non-Western or Global History**

HIST 131, 132, 141, 175, 176, 180, 210, 215, 246*, 274, 275, 280 through 283, 285 through 287, 290, 295, 372, 376 through 397, 400 through 402, 596
* If taken prior to the spring 2006 semester, Hist 246 counts as a European history course.

**Geographic Area Determined by Specific Topic**
HIST 190, 192, 193, 199, 200, 296, 297, 299, 370, 373, 398, 399, 497, 499, 594, 599, 600, 681, 682, 699

The geographic area of concentration in sections of Hist 600, where the area is not obvious in the title, by default is designated in accordance with the primary teaching and research interests of the instructor. In such cases, and with the instructor's approval, Hist 600 can count toward different areas for different students, as determined by the predominant focus of their individual work in the course. Note that a variable topic course cannot be considered "Non-Western or Global" unless at least a substantial part of the course's focus includes the study of African, Asian, Middle Eastern, or Latin American history.

**No Geographic Area**
HIST 288, 289, 291, 293, 294, 296, 489, 595, 651

**ANCIENT AND MEDIEVAL HISTORY (PRE-1500) REQUIREMENT**

The following courses satisfy the pre-1500 requirement of the History major:

HIST 101, 131, 175, 201 through 204, 235, 274, 280, 301, 303, 304, 307, 308, 318 through 320, 325, 376, 383, 384, 394

The following variable topic courses satisfy the pre-1500 requirement of the History major if the specific topic deals preponderantly with the era prior to 1500:

HIST 192, 193, 199, 200, 250, 270, 290, 296, 297, 299, 370 through 373, 398 through 402, 497, 499, 594, 599, 600, 681, 682, 699

Because individual student topics in Hist 600 can vary, that course, with the instructor's approval, may count toward the pre-1500 requirement for certain students, as determined by the predominant focus of their individual work in the course. Note: If taken prior to the spring 2007 semester, Hist 385 also counts as a pre-1500 course.

**CROSS-LISTED COURSE**

Portugs 360 Brazilian Culture, with the topic “History of Brazil,” may be used to fulfill requirements of the undergraduate major or minor in history. It counts as a non-western/global history course.

**JOINTLY OFFERED COURSES**

History offers the following courses jointly with other academic units. Whether these courses are taken under Hist or the curricular areas of the other units, they may be used to fulfill requirements of the undergraduate major or minor in history.

AIS/HIST 262 North American Indian History to 1887
AIS/HIST 263 North American Indian History Since 1887
AIS/HIST 473 History of Wisconsin Indians
AIS/HIST 474 Topics in North American Indian History: (Subtitle)
AIS/HIST 475 American Indian History, Law, and Government
HEBR ST/HIST 275 Ancient Egyptian Civilization
HIST/HCA 228 History of Medicine
SENIOR THESIS OPTION

Students choosing this two-semester sequence (Hist 681-682) write a substantial research paper on a topic of their choice in consultation with a faculty thesis advisor. The prerequisite for Hist 681 is at least one of the following courses: Hist 288, 291, 293 (590), 294 (591), 594, 595, or 596. Students also must receive approval from the faculty thesis advisor and department chair prior to enrolling. With the consent of the faculty thesis advisor and the department chair, history majors with a GPA of 3.333 (B+) or higher in all history credits attempted, including transfer work, may take the thesis sequence in lieu of Hist 600 to satisfy (in part) major requirements and the L&S research requirement. Access and print out the senior thesis proposal form (PDF).

INDEPENDENT STUDY

Independent study is not a substitute for courses regularly available in the curriculum. Students who wish to enroll in independent study (Hist 199 for freshmen and sophomores; Hist 699 for juniors and seniors) must have a minimum GPA of 2.500 in credits attempted at UWM. It is recommended that students work only with faculty members from whom they previously have taken regular classes. Students may not enroll in Hist 199 or 699 for work already completed. When enrolling in Hist 199 or 699, students shall select the section number of the faculty member who will supervise their work.

After consultation with the supervising faculty member, students must print out and complete an independent study form (PDF). This form contains the description of the independent study proposal, and it should be completed during the first two weeks of the semester. The supervising faculty member must approve the proposal and return the signed form to the department office for endorsement by the department chair as well as by the Dean. A student should not take more than three credits of independent study in one semester from the same faculty member. History majors may take no more than 6 of the required 36 credits in History in independent study, and a maximum of 3 credits of independent study may count toward the minor.

INTERNSHIPS

The Department of History encourages eligible students to do internships for credit by enrolling in Hist 289 (freshmen and sophomores) or Hist 489 (juniors and seniors). It is, however, the student’s responsibility to secure an internship with an agency or organization; the Department does not place students in internships. Students also should arrange to have a supervisor oversee their work at the agency or organization. Before securing placement in an agency or organization, interested students should begin by verifying whether or not they meet L&S requirements to enroll in an internship for credit. The prerequisites are:

1. Hist 289: lower-division course in Hist; 2.50 GPA.
2. Hist 489: jr st; satisfaction of GER English Composition competency; 300-level or above course in Hist; 2.50 GPA.

The procedure for enrolling in History 289 or 489 requires the following steps:

1. Student asks the Chair of the Undergraduate Affairs Committee to confirm that s/he is eligible to enroll in Hist 289 or 489. Contact information for the current Chair of the History Undergraduate Affairs Committee can be obtained from the History Department Office (hoffice@uwm.edu).
2. The student downloads the Verification of Internship Form (Word, PDF), which must be completed and signed by the student and the agency or organization supervisor.
3. The student submits the completed and signed Verification of Internship form to the Chair of the History Undergraduate Affairs Committee.
4. The Chair of the History Undergraduate Affairs Committee assigns the student to an academic mentor among the
UWM history faculty.
5. The student and faculty member meet to discuss the internship program, goals, assignment, and form of assessment.
6. Student and mentoring faculty complete and sign the Internship Contract Form (Word, PDF) and ADD/DROP form as appropriate.
7. Student submits the completed and signed Internship Contract and ADD/DROP forms to the History Office.
8. Important: Students must enroll in Hist 289 or 489 by the end of the second week of the semester in which the internship will take place.

Courses (HIST)

Faculty

Jasmine Alinder, Assoc. Prof., PhD
University of Michigan
Coordinator of Public History

Ellen Amster, Assoc. Prof., PhD
University of Pennsylvania

Margo J. Anderson, Prof., PhD
Rutgers University

Joe Austin, Assoc. Prof., PhD
University of Minnesota

Russell H. Bartley, Prof. Emeritus, PhD
James Brundage, Prof. Emeritus, PhD
David D. Buck, Prof. Emeritus, PhD

Rachel Buff, Assoc. Prof., PhD
University of Minnesota
Director, Comparative Ethnic Studies

Martha Carlin, Prof., PhD
University of Toronto

Gregory Carter, Assoc. Prof., PhD
University of Texas at Austin

Winson Chu, Assoc. Prof., PhD
University of California, Berkeley

David DiValerio, Asst. Prof., PhD
University of Virginia

Carolyn Eichner, Assoc. Prof., PhD
University of California, Los Angeles

Christine Evans, Asst. Prof., PhD
University of California, Berkeley

Bruce S. Fetter, Prof. Emeritus, PhD
Marcus Filippelo, Asst. Prof., PhD
University of California, Davis

Carlos Galvão-Sobrinho, Assoc. Prof., PhD
Yale University

Michael A. Gordon, Assoc. Prof. Emeritus, PhD

Victor R. Greene, Prof. Emeritus, PhD

Abbas H. Hamdani, Prof. Emeritus, PhD

David F. Healy, Prof. Emeritus, PhD

J. David Hoeveler, Jr., Distinguished Prof., PhD
University of Illinois

Reginald Horsman, Distinguished Prof. Emeritus, PhD

Douglas Howland, David Buck Professor of Chinese History, PhD
University of Chicago

Glen S. Jeansonne, Prof., PhD
Florida State University

Benjamin Johnson, Assoc. Prof., PhD
Yale University

Nan Y. Kim-Paik, Asst. Prof., PhD
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Director, Consortium for Economic Opportunity

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Kristin Ruggiero, Prof., PhD
Indiana University
Director, Center for Latin American and Caribbean Studies

John H. Schroeder, UW System Distinguished Prof., PhD
University of Virginia

Amanda Seligman, Assoc. Prof., PhD
Northwestern University
Director, Urban Studies Programs

Philip Shashko, Prof. Emeritus, PhD

Lisa Silverman, Asst. Prof., PhD
Yale University

Robert Smith, Assoc. Prof., PhD
Bowling Green State University
Co-Director of Undergraduate Studies in History

George J. Stagakis, Prof. Emeritus, PhD

Walter I. Trattner, Prof. Emeritus, PhD

Chia Vang, Assoc. Prof., PhD
University of Minnesota

Walter B. Weare, Assoc. Prof. Emeritus, PhD

Merry E. Wiesner-Hanks, Distinguished Prof., PhD, Chair
University of Wisconsin-Madison

Web Home Pages:
[ College of Letters & Science ]
[ History ]
The Honors College is open to qualified undergraduates in all UWM schools and colleges. The college offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences. It is appropriate particularly for students who want more engaged and writing-intensive studies or who are preparing for graduate, law, medical, or professional school.

Students receive the degree designations "Honors" or "Honors with Distinction" on their diplomas and transcripts.

**Admission**

Students pursuing their first degree can join the Honors College as freshmen, continuing, or transfer students. Freshmen are admitted based upon a holistic review of their UWM application and high school record. Continuing UWM and transfer students should have a cumulative GPA commensurate with their academic standing (see below) and have met the University English requirement by testing out of, or receiving a B-, or better, in English 102. All students new to Honors must meet with an Honors advisor to discuss how the Honors College can be integrated into their academic plans.

**Continuing in the Honors College**

Honors College students must meet the following **cumulative** GPA/enrollment criteria:

1. To continue in the Honors College, students must attain the following minimum grade point averages for work done at UWM:
   - Freshman (after first semester) 3.0
   - Sophomores (at beginning of sophomore year) 3.3
   - Juniors (at beginning of junior year) 3.4
   - Seniors/to graduate with an Honors degree (at beginning of senior year) 3.5

2. Students admitted as new freshman who need to complete the University English Requirement must complete Honors 200 in the first semester following their completion of the English Requirement.

3. Students who do not take Honors courses for two consecutive semesters will be considered “inactive” and dropped from the Honors College.

**Graduating with Honors**
All UWM Undergraduate Schools and Colleges now offer the Honors Degree, a special diploma awarded to students who complete Honors College requirements. Students who complete a Senior Thesis or Project, or complete two semesters of Research in Honors, receive a special “Honors with Distinction” degree. Graduating with an Honors Degree provides convincing evidence of outstanding academic achievement, a valuable accomplishment students can note on resumes and graduate school applications. To graduate with Honors, students must achieve a cumulative GPA of at least 3.5 and accumulate at least 21 Honors credits.

Notification of Ineligible Students

At the end of each semester, the Honors College will review students’ academic records to determine whether they meet the criteria for continuation in the program. The Honors College will notify by mail all students who fail to meet these criteria, stating that they no longer are eligible to enroll in Honors classes. If these students already are enrolled in Honors classes for the next semester, they will be dropped administratively.

Regaining Honors College Eligibility

1. Students who become ineligible by failing to maintain the minimum grade point average may apply for reinstatement if they subsequently raise their grade point average to the required level.
2. Students who become ineligible after two consecutive semesters with no Honors courses may apply for reinstatement.
3. In either case, students applying for reinstatement must indicate in writing how they propose to complete Honors requirements before graduation.

Graduation Requirements

An Honors degree requires 21 Honors credits and at least a 3.5 cumulative grade point average at graduation. All Honors credits count toward the total credits required for graduation. Students must earn a grade of B- or better to receive Honors credit for a course. At least 12 of the 21 Honors credits must be earned at UWM, with at least 9 credits in upper-level Honors seminars at UWM.

Students also may choose to graduate with "Honors with Distinction." The designation "Honors with Distinction" is awarded to students who, as part of their Honors requirements, successfully complete 6 credits in "Research in Honors," a "Senior Honors Project" or a "Senior Honors Thesis." This designation will appear on the students' transcripts. Students complete the required credits through enrollment in Honors 686, 687, or 689 (see below).

Course of Study

Honors Seminars. Freshmen and sophomores entering the Honors College must complete Honors 200, earning a grade of B- or better, before taking other honors courses (except for honors calculus, which can be taken concurrently). Following Honors 200, which may be repeated once with change in topic, students with sophomore standing or above may take departmental Honors seminars at 3H credits each.

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<tr>
<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind: (Subtitle)</td>
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<td>MATH 221</td>
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<tr>
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<tr>
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<td>Honors Seminar: (Subtitle)</td>
<td>3H</td>
</tr>
</tbody>
</table>
With the exception of Honors 200 and 380, variable content seminars (those marked "Subtitle") are retakable with a change in topic to a maximum of 9 credits. Honors 200 and 380 are retakable once.

**Advanced Independent Study** (3H cr.): Independent study courses offered through departments. Course numbers vary. Prerequisite: junior standing

**Honors 685** (Honors Tutorial; 3H cr.): An independent study course for students who cannot arrange independent study through one of the departments. Prerequisite: junior standing.

**Honors 686** (Research in Honors; 3H or 6H cr.): Students assist a faculty member in his/her research and then design and complete an original and major research project under the supervision of a faculty advisor. Students who complete 6 cr are awarded “Honors with Distinction” on their transcripts. Prerequisite: junior standing and 9H credits.

* **Honors 687** (Senior Honors Project; 3H cr.; retakable to a max of 6H cr.): The Senior Honors Project is intended for students in majors in which an Honors Thesis is not appropriate. It consists of a performance, exhibit, musical composition, or technical/professional project completed under the supervision of a faculty advisor. Students who complete 6H cr. are awarded “Honors with Distinction” on their transcripts. Prerequisite: senior standing.

* **Honors 689** (Senior Honors Thesis; 6H cr. over two semesters): The Senior Honors Thesis allows students the opportunity to write an extended paper (usually 50-75 pages) reflecting independent research conducted in some aspect of their major field of study under the supervision of a faculty advisor. Students who complete the thesis are awarded “Honors with Thesis” on their transcripts. Prerequisite: senior standing.

*Students may not do both a Senior Thesis and a Senior Project.*

**Graduate Courses.** Courses at the 700 level and above may be counted toward the Honors College graduation
requirements. This option normally is open only to seniors in the program who meet the necessary prerequisites. Permission for an Honors student to take a graduate course must be obtained from the instructor of the course, the department chair, the dean of the appropriate school/college, and the Honors College director.

Other Options. A maximum of 9H credits earned at other universities may be applied to the Honors College graduation requirements with the director’s approval. Honors credits also may be earned through approved Study Abroad Programs.

Courses

Honors College (HONORS)

Administration

Charles Schuster, Director
University of Iowa

Robin Weigert, Assistant Director
University of Wisconsin-Milwaukee

Web Home Page:
[ Honors College ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Honors College
[ College of Letters & Science ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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International Studies

Erica Bornstein, Associate Professor of Anthropology, Coordinator

The International Studies (IS) Program is an interdisciplinary major administered by faculty members in the College of Letters & Science. The IS Program offers students an excellent opportunity to improve their understanding of the diverse cultures of the world and to begin developing the skills they need for careers that have an international dimension. The IS Program has grown steadily over the past 50 years to meet the needs for a more globalized education.

All interested students should consult the International Studies advisor at the earliest opportunity. Students may declare the major once they have reached 15 credits. The advisor will assist each student in preparing a logical sequence of studies.

Honors and high honors in the major are awarded at graduation to students who achieve the following:

**Honors:** at least a 3.0 overall GPA with a 3.5 GPA on all credits in the major;

**High Honors:** at least a 3.0 overall GPA with a 3.75 GPA on all credits in the major.

The International Studies (IS) major offers a number of special programs designed to help students deepen their knowledge of international affairs. Students may receive credit toward the major for participation in study abroad programs or the United Nations Summer Seminar. Credit toward the major also may be obtained through a semester-long internship in an international business, a government office, or a private organization with an international focus, either in Milwaukee or abroad.

**Course of Study: Major**

The major requires 14 college credits or the equivalent in one foreign language. Students must complete at least one college course to meet this requirement; high school work alone will not suffice. Students must attain a 2.5 GPA in all UWM credits attempted for the major. In addition, the College requires that students attain a 2.5 GPA in all major credits attempted, including any transfer work.

**Introductory Courses**

The following introductory courses are required and should be taken during the first two years:

A. ECON 103 Principles of Microeconomics 3
B. ECON 104 Principles of Macroeconomics 3
C. GEOG 110 The World: Peoples and Regions 3
D. One of the following Anthropology or History courses, 3 cr.
   ANTHRO 102 Introduction to Anthropology: Culture and Society
   ANTHRO 104 Lifeways in Different Cultures: A Survey of World Societies
   HIST 176 East Asian Civilization Since 1600
   HIST 180 Latin American Society and Culture
HIST 242 Women and Gender in Europe: 1750 to the Present
HIST 282 The Modern Middle East in the Nineteenth and Twentieth Centuries
E. One of the following Political Science courses, 3 cr.
   POL SCI 106 Politics of the World's Nations
   POL SCI 175 Introduction to International Relations
Credits earned in the above courses do not count toward the credits required for the major; however, they cannot be taken on a credit/no credit basis.
The major requires a minimum of 36 credits, including the following:

**General Course Requirements for the Major (6-7 cr.)**

INTLST 550 Senior Seminar in International Studies: (Subtitle) (Satisfies L&S research requirement) 3
One course from the following list of “Analytical Techniques” courses: 3-4 cr.
ANTHRO 560 Introduction to Research Methods in Anthropology 3
ANTHRO 561 Techniques and Problems in Ethnography 3
ECON 210 Economic Statistics 3
GEOG 215 Introduction to Geographic Information Sciences 3
HIST 294 Seminar on Historical Method: Research Techniques 3
MTHSTAT 215 Elementary Statistical Analysis 3
POL SCI 203 Introduction to Political Science Research 3
POL SCI 390 Political Data Analysis 4
SOCIOL 261 Introduction to Statistical Thinking in Sociology 3
WMNS 411 Women's Studies Research and Methods: (Subtitle) 3

**Option A: International Politics and World Affairs.** This option emphasizes political aspects of international studies.
18 credits are required as outlined below:
A. ECON 351 Introduction to International Economic Relations 3
B. HIST 434 The United States as a World Power in the Twentieth Century 3
C. POL SCI 359 Problems of American Foreign Policy 3
D. A minimum of three of the following courses (9 cr.):
   ECON 353 Economic Development
   POL SCI 316 International Law
   POL SCI 337 International Organization and the United Nations
   POL SCI 338 Seminar in International Relations (part of UN Summer Seminar)
   POL SCI 340 Politics of Nuclear Weapons
   POL SCI 365 Theories and Methods in International Relations
   POL SCI 370 International Conflict
   POL SCI 371 Nationalism and Ethnic Conflict
E. Electives: 11-12 credits from the list of electives for a total of 36 credits.

**Option B: International Economics and Development.** This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies.
18 credits are required as outlined below:
A. ECON 301 Intermediate Microeconomics 3
B. ECON 302 Intermediate Macroeconomics 3
C. ECON 353 Economic Development 3
D. POL SCI 330 The Politics of International Economic Relations 3
E. A minimum of two courses from the following courses (6 cr.):
   BUS ADM 465 International Marketing
   BUS ADM 496 International Business
   ECON 351 Introduction to International Economic Relations
   ECON 454 International Trade
   ECON 455 International Finance
   POL SCI 316 International Law
   POL SCI 370 International Conflict
F. 11-12 credits from the above and/or the list of electives for a total of 36 credits.

**Option C: World Languages and Culture.** This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives.

18 credits are required as outlined below:

A. Choose four courses from the following list, selecting from four different disciplinary areas (12 cr.):

<table>
<thead>
<tr>
<th>Discipline</th>
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<th>Course Title</th>
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<tbody>
<tr>
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<td>Globalization, Culture &amp; Environment</td>
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<td>ANTHRO 431</td>
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<td>ANTHRO 442</td>
<td>Humanitarianism in Global Perspective (* jointly offered with Global)</td>
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<td>ANTHRO 447</td>
<td>Global Politics of Human Rights (* jointly offered with Global)</td>
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<td>ANTHRO 543</td>
<td>Cross-Cultural Study of Religion</td>
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<th>World Literature in Translation</th>
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<td>ITALIAN 457</td>
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<tr>
<td>PORTUGS 380</td>
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<td>PORTUGS 457</td>
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<td>RUSSIAN 350</td>
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<td>RUSSIAN 391</td>
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<td>SPANISH 371</td>
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<td>SPANISH 373</td>
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<td>SPANISH 380</td>
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</tbody>
</table>

B. Complete at least two upper-division courses (numbered 300 or above) in a single foreign language (6 cr.).

C. Electives: 11-12 credits from the list of electives for a total of 36 credits.

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### Course of Study: Minor

The International Studies minor is open to all undergraduate students at the University of Wisconsin-Milwaukee and can be paired with any major or degree program with the exception of a Global Studies major or minor. The International Studies minor consists of a total of 18 credits, in which students must attain a minimum GPA of 2.50 on all credits attempted for the minor. In addition, the College requires that students attain a 2.5 GPA in all minor credits attempted, including transfer work. Students must complete in residence at UWM at least 9 credits of upper-division courses (numbered 300 or above) in the minor. Students may declare the minor after completing at least 15 credits.

### Requirements for the Minor (18 credits total)

...
I. INTLST 550 Senior Seminar in International Studies: (Subtitle), 3 cr.

II. One course from the following list of “Analytical Techniques” courses, 3-4 cr.

ANTHRO 560 Introduction to Research Methods in Anthropology 3
ANTHRO 561 Techniques and Problems in Ethnography 3
ECON 210 Economic Studies 3
GEOG 215 Introduction to Geographic Information Sciences 3
HIST 294 Seminar on Historical Method: Research Techniques 3
MTHSTAT 215 Elementary Statistical Analysis 3
POL SCI 203 Introduction to Political Science Research 3
POL SCI 390 Political Data Analysis 4
SOCIOL 261 Introduction to Statistical Thinking in Sociology 3
WMNS 411 Women's Studies Research and Methods 3
POL SCI 175 Introduction to International Relations

III. Two courses from one of the options (A, B, or C) listed below, 6 cr.

IV. Six additional credits from the approved electives list, 6 cr.

**Option A: International Politics and World Affairs.** This option emphasizes political aspects of international studies.

ECON 351 Introduction to International Economic Relations
ECON 353 Economic Development
HIST 434 The United States as a World Power in the Twentieth Century
POL SCI 316 International Law
POL SCI 337 International Organization and the United Nations
POL SCI 338 Seminar in International Relations (part of UN Summer Seminar)
POL SCI 340 Politics of Nuclear Weapons
POL SCI 359 Problems of American Foreign Policy
POL SCI 365 Theories and Methods in International Relations
POL SCI 370 International Conflict
POL SCI 371 Nationalism and Ethnic Conflict

**Option B: International Economics and Development.** This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies.

BUS ADM 465 International Marketing
BUS ADM 496 International Business
ECON 301 Intermediate Microeconomics
ECON 302 Intermediate Macroeconomics
ECON 351 Introduction to International Economic Relations
ECON 353 Economic Development
POL SCI 330 The Politics of International Economic Relations
ECON 454 International Trade
ECON 455 International Finance
POL SCI 316 International Law
POL SCI 330 The Politics of International Economic Relations
POL SCI 370 International Conflict
URBPLAN 315 Planning for Great Cities of the World: Their Growth and Guided Urbanization
URBPLAN 684 Planning Local Economic Development

**Option C: World Languages and Culture.** This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives.

ANTHRO 355 Globalization, Culture & Environment
ANTHRO 431 Urban Anthropology
ANTHRO 442 Humanitarianism in Global Perspective (* jointly offered with Global)
ANTHRO 447 Global Politics of Human Rights (* jointly offered with Global)
ANTHRO 449 Economic Anthropology
ANTHRO 450 Political Anthropology
ANTHRO 543 Cross-Cultural Study of Religion
COMPLIT 231 Literature & Religion
COMPLIT 232 Literature & Politics
ENGLISH 278 Introduction to World Literatures Written in English
ENGLISH 316 World Cinema
ENGLISH 522 Studies in World Literatures Written in English
GLOBAL 321 The Global City in History
GLOBAL 351 Language, Media, and Social Practice in Global Communications
HIST 210 The Twentieth Century: A Global History
HIST 290 Topics in Global History
HIST 372 Topics in Global History
ITALIAN 245 Italian Fictions
ITALIAN 457 Topics in Italian Literature and Culture in Translation
PORTUGS 380 Luso-Brazilian Literature in Translation: (Subtitle)
PORTUGS 457 Seminar in Brazilian Literature
RUSSIAN 350 Dostoyevsky and Tolstoy in Translation: Major Works
RUSSIAN 391 Russian Literature and Culture in Translation
SPANISH 371 Introduction to Latino Literature in English
SPANISH 373 Topics in Latino Literature in English
SPANISH 380 Spanish Literature in Translation: (Subtitle)

Electives

AFRICOL 232 Survey of African Societies and Cultures 3
AFRICOL 311 African Religious Thought and Social Organization 3
AFRICOL 320 Black Cultures in Latin America and the Caribbean 3
AFRICOL 325 Political Economy of Africa/China Relations 3
AFRICOL 329 Economic Growth and Sustainable Development in Africa 3
AFRICOL 334 (234) Survey of Black American and Black Brazilian Societies 3
AFRICOL 344 Political Movements and Organizations in the Afroworld 3
AFRICOL 351 Sex, Marriage, and Health Care in the Afroworld 3
AFRICOL 352 Extended Families in Black Societies 3
AFRICOL 362 Philosophy and Thought in the Afroworld II 3
AFRICOL 414 The Black Woman in America, Africa, and the Caribbean 3
AFRICOL 418 Race, Class, and Gender in the Caribbean 3
AFRICOL 420 The Political Economy of Slavery 3
AFRICOL 565 Selected Texts/Topics in Africology: (Subtitle) 3
ANTHRO 102 Introduction to Anthropology: Society and Culture 3
ANTHRO 104 Lifeways in Different Cultures: A Survey of World Societies 3
ANTHRO 156 Food and Culture 3
ANTHRO 250 Women's Roles in Cross-Cultural Perspective 3
ANTHRO 320 Peoples and Cultures of Africa 3
ANTHRO 326 Peoples and Cultures of South Asia 3
ANTHRO 349 Seminar in Ethnography and Cultural Processes 3
ANTHRO 355 Globalization, Culture, and Environment 3
ANTHRO 362 System Failure: Globalization and Language Extinction (or GLOBAL 362) 3
ANTHRO 381 Honors Seminar: (with appropriate subtitle) 3
ANTHRO 431 Urban Anthropology 3
ANTHRO 440 Medical Anthropology 3
ANTHRO 441 Nature, Knowledge, and Technoscience 3
ANTHRO 442 Humanitarianism in Global Perspective (or GLOBAL 442) 3
ANTHRO 443 Medicine and Pharmaceuticals in the Global Age 3
ANTHRO 445 Psychological Anthropology 3
ANTHRO 446 The Child in Different Cultures 3
ANTHRO 447 Global Politics of Human Rights (or GLOBAL 447) 3
ANTHRO 448 Culture and Human Ecology 3
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<td>History of Film II: Development of an Art</td>
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<td>Contemporary Chinese Societies Through Film</td>
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<td>Seminar in Literature and Cultural Experience: (Subtitle)</td>
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<td>Transnational Asian Cinemas: (Subtitle)</td>
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<td>Language, Power, and Identity</td>
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<td>Seminar in Modern Literature: (Subtitle)</td>
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<td>Selected Topics in Ethnic Studies: (with appropriate subtitle)</td>
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<td>FRENCH 311</td>
<td>French for International Business/Professional Communication: Oral Emphasis</td>
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<td>Institutions and Culture of Contemporary France</td>
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<td>Cinema of the French-Speaking World: (Subtitle)</td>
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<td>The Second World War in Europe</td>
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<td>Introduction to Italian Literature and Film</td>
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<td>JAPAN 110</td>
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SPANISH 342  Business and Legal Spanish II  3
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<td>SPANISH 380</td>
<td>Spanish Literature in Translation: (Subtitle)</td>
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<td>Social and Historical Issues in the Hispanic World: (Subtitle)</td>
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<td>Business and Legal Spanish II</td>
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<td>URBPLAN 661</td>
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<td>URBPLAN 684</td>
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**Courses**

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**International Studies (INTLST)**

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Linguistics inquires into the nature of human language. In modern times, research in linguistics has concentrated on the search for universal properties of human languages in an effort to understand that unique characteristic of human beings, the faculty of language. Recognition of the importance of modern linguistic research continues to grow today, with research results now seen to have implications for numerous additional disciplines, including anthropology, computer science, education, ethnology, psychology, sociology, and speech pathology.

The Linguistics Department provides both a general and an applied option leading to an undergraduate major as well as an option for a minor in linguistics. Many of the courses taught in the Linguistics Department form a required or recommended portion of the curricula of other academic programs.

Course of Study: Linguistics Major

The undergraduate major in linguistics may be obtained by pursuing either the general major option or the applied major option. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. The College also requires students to complete a research experience in their major. Students will complete this requirement in the context of the following courses:

<table>
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<tr>
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<tr>
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<td>Linguis 450</td>
<td>General Phonetics and Phonetics Practicum</td>
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<td>Linguis 460</td>
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<td>Linguis 464</td>
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<tr>
<td>Linguis 470</td>
<td>Historical/Comparative Linguistics</td>
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<td>Linguis 474</td>
<td>Language Typology and Universals</td>
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<td>Linguis 560</td>
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**GENERAL LINGUISTICS MAJOR OPTION**

**Basic Requirements (12 cr.)**

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<td>General Phonetics and Phonetics Practicum</td>
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<td>Linguis 464</td>
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**Special Requirements (9 cr.). At least three of the following:**

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<td>Linguis 430</td>
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<td>Semantics</td>
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<td>Language in Its Various Forms: (Subtitle)</td>
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**Electives (9 cr.)**

Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.

**APPLIED LINGUISTICS MAJOR OPTION**

**Basic Requirements (18 cr.)**

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<td>Linguis 420</td>
<td>Introduction to Second Language Acquisition</td>
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<td>Linguis 430</td>
<td>Language and Society</td>
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<td>OR Linguis 570</td>
<td>Issues in Bilingualism (jointly offered with Anthro 570)</td>
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<td>Linguis 450</td>
<td>General Phonetics and Phonetics Practicum</td>
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**Special Requirements (6 cr.). At least two of the following:**

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<td>Linguis 415</td>
<td>First Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>Linguis 432</td>
<td>Urban Dialects</td>
<td>3</td>
</tr>
<tr>
<td>Linguis 440</td>
<td>Psycholinguistics</td>
<td>3</td>
</tr>
<tr>
<td>Linguis 468</td>
<td>Language in Its Various Forms</td>
<td>3</td>
</tr>
<tr>
<td>Linguis 565 (426)</td>
<td>Introduction to Adult/University-Level TESOL</td>
<td>3</td>
</tr>
<tr>
<td>Linguis 567</td>
<td>Materials for ESL Instruction</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives (6 cr.)**

Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.

**Linguistics Major Approved Electives**

All linguistics courses not selected to meet a specific requirement in the option.
All language courses. (Does not include literature courses).

The following courses offered by other units:

**Anthro**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthro 105 (360)</td>
<td>Introduction to Linguistic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 361</td>
<td>Applications in Linguistic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 362</td>
<td>System Failure: Globalization and Language Extinction</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 366</td>
<td>Aspects of Linguistic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Anthro 641</td>
<td>Seminar in Anthropology (with linguistics subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Commun**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commun 320</td>
<td>Nonverbal Communication</td>
<td>3</td>
</tr>
<tr>
<td>Commun 350</td>
<td>Intercultural Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

**ComSDis**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ComSDis 230</td>
<td>Introduction to Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>ComSDis 240</td>
<td>Normal Speech and Language Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**CompSci**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CompSci 132</td>
<td>Introduction to Computers and Programming</td>
<td>3</td>
</tr>
<tr>
<td>CompSci 423</td>
<td>Introduction to Natural Language Processing</td>
<td>3</td>
</tr>
<tr>
<td>CompSci 431 (631)</td>
<td>Programming Languages Concepts</td>
<td>3</td>
</tr>
</tbody>
</table>

**English**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 211</td>
<td>Aspects of the English Language: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>English 400</td>
<td>Introduction to English Linguistics (jointly offered with Linguistics)</td>
<td>3</td>
</tr>
<tr>
<td>English 402</td>
<td>Theories of Language and Literature (with language focus)</td>
<td>3</td>
</tr>
<tr>
<td>English 403</td>
<td>Survey of Modern English Grammar</td>
<td>3</td>
</tr>
</tbody>
</table>

**French**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>French 392</td>
<td>Phonetics</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>German 451</td>
<td>Introduction to German Linguistics</td>
<td></td>
</tr>
<tr>
<td>German 671</td>
<td>Seminar on Phonetics</td>
<td></td>
</tr>
<tr>
<td>Philos 211</td>
<td>Elementary Logic</td>
<td></td>
</tr>
<tr>
<td>Philos 212</td>
<td>Modern Deductive Logic</td>
<td></td>
</tr>
<tr>
<td>Philos 511</td>
<td>Symbolic Logic</td>
<td></td>
</tr>
<tr>
<td>Philos 516</td>
<td>Language and Meaning</td>
<td></td>
</tr>
<tr>
<td>Philos 517</td>
<td>Special Problems in the Philosophy of Language and Linguistics: (Subtitle)</td>
<td></td>
</tr>
<tr>
<td>Spanish 341</td>
<td>Introduction to Hispanic Linguistics</td>
<td></td>
</tr>
<tr>
<td>Spanish 443 (340)</td>
<td>Spanish Phonetics and Phonology</td>
<td></td>
</tr>
<tr>
<td>Spanish 444 (344)</td>
<td>Spanish Syntax and Morphology</td>
<td></td>
</tr>
<tr>
<td>Spanish 446</td>
<td>Hispanic Sociolinguistics</td>
<td></td>
</tr>
<tr>
<td>Spanish 541 (441)</td>
<td>History of the Spanish Language</td>
<td></td>
</tr>
</tbody>
</table>

**Course of Study: Linguistics Minor**

The undergraduate linguistics minor may be obtained by pursuing either the general or the applied option. Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including transfer work.

**GENERAL LINGUISTICS MINOR OPTION**

*Basic Requirements (12 cr.)*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguis 350</td>
<td>Introduction to Linguistics</td>
</tr>
<tr>
<td>Linguis 430</td>
<td>Language and Society</td>
</tr>
</tbody>
</table>

*One of the following four courses:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguis 415</td>
<td>First Language Acquisition</td>
</tr>
<tr>
<td>Linguis 460</td>
<td>Introduction to Phonology</td>
</tr>
<tr>
<td>Linguis 464</td>
<td>Introduction to Syntax</td>
</tr>
<tr>
<td>Linguis 468</td>
<td>Language in Its Various Forms: (Subtitle)</td>
</tr>
</tbody>
</table>

*Electives (9 cr.)*

Coursework in linguistics and related areas, selected from the approved electives list (see above) in consultation with an advisor in the Linguistics program. Students are encouraged to focus their electives in an area closely aligned with the study of linguistics, including various foreign languages, English, anthropology, philosophy, computer science, and education, among others.

**APPLIED LINGUISTICS MINOR OPTION**

*Basic Requirements (18 cr.)*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguis 350</td>
<td>Introduction to Linguistics</td>
</tr>
<tr>
<td>Linguis 420</td>
<td>Introduction to Second Language Acquisition</td>
</tr>
<tr>
<td>Linguis 430</td>
<td>Language and Society</td>
</tr>
<tr>
<td>Anthro/Linguis 570</td>
<td>Issues in Bilingualism (jointly offered with Anthro 570)</td>
</tr>
</tbody>
</table>

*One of the following five courses:*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linguis 415</td>
<td>First Language Acquisition</td>
</tr>
<tr>
<td>Linguis 460</td>
<td>Introduction to Phonology</td>
</tr>
<tr>
<td>Linguis 464</td>
<td>Introduction to Syntax</td>
</tr>
<tr>
<td>Linguis 468</td>
<td>Language in Its Various Forms: (Subtitle)</td>
</tr>
<tr>
<td>Linguis 565 (426)</td>
<td>Introduction to Adult/University-Level TESOL</td>
</tr>
</tbody>
</table>

*Electives (3 cr.)*

Coursework in linguistics and related areas, selected from the approved electives list (see above) in consultation with an advisor in the Linguistics program. Students are encouraged to focus their electives in an area closely aligned with the study of linguistics, including various foreign languages, English, anthropology, philosophy,
computer science, and education, among others.

**Related Program**
A related program is the Certificate in Adult/University-Level Teaching English to Speakers of Other Languages (TESOL).

**Faculty**

Roberta Corrigan, Prof. Emerita, PhD

**Garry Davis, Prof., PhD, Chair**
University of Michigan

**Fred Eckman, Disting. Prof., PhD**
Indiana University

**Nicholas Fleisher, Asst. Prof., PhD**
University of California, Berkeley

Gregory Iverson, Prof. Emeritus, PhD

Edith Moravcsik, Prof. Emerita, PhD

**Hamid Ouali, Assoc. Prof., PhD**
University of Michigan - Ann Arbor

**Hanyong Park, Asst. Prof., PhD**
Indiana University

**Sandra Pucci, Assoc. Prof., PhD**
University of Southern California

**Anne Pycha, Asst. Prof., PhD**
University of California, Berkeley

**Jae Yung Song, Asst. Prof., PhD**
Brown University

**Tue Trinh, Asst. Prof., PhD**
Massachusetts Institute of Technology

Jessica Wirth, Assoc. Prof. Emerita, PhD

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**Linguistics (LINGUIS)**

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Web Home Pages:
[ College of Letters & Science ]
[ Linguistics ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
**Linguistics**
The Department of Journalism, Advertising, and Media Studies offers a major or minor in journalism, advertising, and media studies that emphasizes the study of the social implications and responsibilities of the mass media, an understanding of the processes of communication, and a fundamental knowledge of media communication techniques and procedures. The program provides students with a broad background in the liberal arts and sciences, which are vital aspects of contemporary life and essential to those entering careers in media communication.

**Criteria and Procedures for Admission to the Major or Minor**

Students will be eligible to declare the JAMS major or minor without completing an admissions application if they meet all of the following criteria:

1. They have completed JAMS 101 and 201 with at least a 2.50 GPA in the two courses.
2. They have an overall GPA of at least 2.50.
3. They have a least 24 credits on their transcript, excluding credits obtained through examinations (such as CLEP and AP credits) and retroactive foreign language credits. These 24 credits must include at least 12 credits taken in residence at UWM unless the applicant has completed a bachelor's degree and is seeking an additional major or degree.

To declare the major, students who meet the listed criteria should call (414) 229-4436 or email JAMS-email@uwm.edu. They will be assigned a JAMS advisor. They will need to meet with this advisor to complete the declaration process. NOTE: JAMS does not declare new majors/minors during the week before classes begin in fall or spring semester or during the first two weeks of those semesters.

Students who do not meet the declaration requirement listed above must go through the appeals process for admission to the JAMS major or minor. Go to the Journalism, Advertising and Media Studies website (www4.uwm.edu/letsci/jams/) for application procedures.

**Course of Study: Major**

A journalism, advertising, and media studies major requires a minimum of 39 credits in journalism, advertising, and media studies, including 24 or more credits in courses numbered 300 or above. In addition to JAMS 101 and 201, which are required for admission to the major and which count toward the 39 required credits, all majors must complete at least one JAMS 600-level course with the word "Seminar" in its title to meet the L&S requirement for a research experience in the major, and JAMS 559 (Law of Mass Communication). Majors also must complete the requirements of one of three concentrations (Journalism/Documentary, Media Studies, or Advertising/Public Relations). Students must
complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including transfer work.

**CONCENTRATION REQUIREMENTS**

1. Journalism

   JAMS 204  News Writing and Technology  3
   JAMS 320  Integrated Reporting  3
   At least two from the following courses:
   JAMS 342 (542)  Television News Reporting  3
   JAMS 500  Advanced Reporting  3
   JAMS 544 (642)  Television Newsroom Management  3
   JAMS 602  Specialized Reporting  3

2. Media Studies

   JAMS 262  Principles of Media Studies  3
   JAMS 562  Media Studies and Culture  3
   One Production course from among the following:
   JAMS 204  News Writing and Technology  3
   JAMS 231  Publication Design  3
   JAMS 232  Photojournalism  3
   JAMS 306  Feature and Magazine Article Writing  3
   JAMS 307  Advertising and Public Relations Writing and Production  3
   JAMS 336  Media Graphics  3
   JAMS 504  Critical and Opinion Writing  3
   JAMS 602  Specialized Reporting: (Subtitle)  3
   JAMS 204  News Writing and Technology  3
   One Media Studies course from among the following (in addition to at least one JAMS 600-level course with the word “Seminar” in its title selected to meet the L&S requirement for a research experience in the major):
   JAMS 356 (556)  Media Literacy  3
   JAMS 360 (560)  History of Mass Media  3
   JAMS 361  Media Ethics  3
   JAMS 450  Race and Ethnicity in the Media  3
   JAMS 614  Seminar in Media and Public Opinion  3
   JAMS 615  Seminar in Media and Politics  3
   JAMS 620  Seminar in Global Media  3
   JAMS 645 (445)  Seminar in Health and the Media  3
   JAMS 659  Seminar in Comparative Media Law  3
   JAMS 660  Seminar in Contemporary Issues in Media Studies  3

3. Advertising/Public Relations

   JAMS 207  Introduction to Advertising and Public Relations  3
   JAMS 307  Advertising and Public Relations Writing and Production  3
   JAMS 505  Research for Advertising and Public Relations  3
   JAMS 524  Advertising and Public Relations Campaigns  3

**Course of Study: Minor**

A minor in journalism, advertising, and media studies consists of a minimum of 18 credits in journalism, advertising, and media studies including:

JAMS 101  Introduction to Mass Media  3
At least 9 credits must be at the 300 level or above taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including transfer work.

Courses (JAMS)

Cross-listed Courses

The following courses offered by the Department of English may be used to fulfill curricular requirements of the undergraduate major or minor in journalism, advertising, and media studies:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 430</td>
<td>Advanced Writing Workshop</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH 435</td>
<td>Professional and Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Related Course

The following course offered by the Department of English may be of interest to JAMS students but may not be used to fulfill curricular requirements of the JAMS major or minor:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Faculty and Staff

David S. Allen, Assoc. Prof., PhD
University of Minnesota

David Backes, Prof., PhD, Chair
University of Wisconsin-Madison

George A. Bailey, Assoc. Prof. Emeritus, PhD

Xiaoxia Cao, Asst. Prof., PhD
University of Pennsylvania

Jane Hampden Daley, Sr. Lect., MSJ
Columbia University

Earl S. Grow, Assoc. Prof. Emeritus, PhD

Ruane B. Hill, Prof. Emeritus, PhD

Gregg Hoffmann, Sr. Lect. Emeritus, MA

Donald LeDuc, Prof. Emeritus, PhD

Elana Levine, Assoc. Prof., PhD
University of Wisconsin-Madison

Kay Magowan, Sr. Lect. Emerita, MA

Jessica McBride, Sr. Lect., MA
University of Wisconsin-Milwaukee
Mathematical Sciences

- Web Home Pages:
  - College of Letters & Science
  - Mathematical Sciences
- Actuarial Science Major
- Atmospheric Science Major
- Mathematics Major
- Actuarial Science Minor
- Atmospheric Science Minor
- Mathematics Minor
- Applied Mathematics and Computer Science
- Courses: Atmospheric Sciences (ATM SCI)
- Courses: Mathematics (MATH)
- Courses: Mathematical Statistics (MTHSTAT)
- Faculty

Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Actuarial science is the mathematical analysis of problems in economics, finance, and insurance. It requires knowledge of statistics, probability, and interest theory and how they relate to financial issues.

Applied mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.

Atmospheric science is the study of short-term weather and long-term climate, involving activities such as weather forecasting and analysis and air pollution meteorology. It uses advanced methods in statistics and numerical modeling.

Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.

Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.

Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

A major in mathematical sciences allows students to design, in conjunction with an advisor, a personalized program to fit individual interests and talents. Students may major in actuarial science, atmospheric science, or mathematics.

The basic mathematics major has been designed for students who are completing a double major. For this reason,
flexibility is offered; students should find it relatively easy to combine the requirements of the mathematics major with the mathematical requirements or electives of other programs.

**Students may specialize** in any of four particularly significant areas: applied mathematics, computational mathematics, pure mathematics, and statistics. Completing a specialization gives a student expertise that is indicated on the transcript and that will be helpful in seeking employment or gaining admission to graduate school.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should consult the School of Education section of this catalog.

Please visit the departmental web page at [www.math.uwm.edu](http://www.math.uwm.edu) and follow the links to the undergraduate program.

**Curricular Areas in Mathematical Sciences**

Students should note that there are three curricular areas and corresponding abbreviations in the Department of Mathematical Sciences: Atmospheric Science (ATM SCI), Mathematics (MATH), and Mathematical Statistics (MTHSTAT).

**Course of Study: Majors**

Students considering a major in the Department of Mathematical Sciences need to come to the department to declare their major and be assigned an advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

**Preparatory Curriculum.** Students in all majors in the Department of Mathematical Sciences must complete MATH 231, 232, and 233 (or equivalent). MATH 225 and 226 are equivalent to MATH 231; MATH 221 and 222 are equivalent to MATH 231, 232, and 233. Students majoring in actuarial science or mathematics must have a GPA of at least 2.5 in these courses. All majors must take either MATH 234 or 240, as well as a course in computer programming in a modern, high-level language. The department also recommends strongly one year of calculus-based physics. Actuarial science and atmospheric science majors must complete additional preparatory curricula, as indicated below.

**Capstone Experience.** Students in all majors and major options in the Department of Mathematical Sciences must complete either ATM SCI 599 or MATH 599, "Capstone Experience." The aim of the department’s capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. Students must obtain consent of a professor to enroll in ATM SCI 599 or MATH 599.

**Actuarial Science Major**

The actuarial science major is an interdisciplinary program intended to prepare students for professional examinations and employment as actuaries. Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work.

**Additional Preparatory Curriculum**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 201</td>
<td>Understanding and Using Financial Statements</td>
<td>3</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
</tbody>
</table>

At least 6 credits to be completed from among:
BUS ADM 230  Introduction to Information Systems 3
COMPSCI 151  Introduction to Scientific Programming in Fortran 3
COMPSCI 201  Introductory Computer Programming 4

One of the following three courses:

MTHSTAT 215  Elementary Statistical Analysis 3
ECON 210  Economic Statistics 3
BUS ADM 210  Introduction to Management Statistics 3

Core Curriculum

The following work is required:
MATH 311  Theory of Interest 3
MATH 599  Capstone Experience 1
MTHSTAT 361  Introduction to Mathematical Statistics I 3
MTHSTAT 362  Introduction to Mathematical Statistics II 3
MTHSTAT 563  Regression Analysis 3
MTHSTAT 564  Time Series Analysis 3
MTHSTAT 591  Foundations in Professional Practice in Actuarial Science 1
MTHSTAT 592  Actuarial Science Laboratory I: Probability 1
MTHSTAT 593  Actuarial Science Laboratory II: Interest Theory, Finance, Economics 1

One of the following two courses:

BUS ADM 350  Principles of Finance 3
BUS ADM 450  Intermediate Finance 3

One of the following two courses:

ECON 301  Intermediate Microeconomics 3
ECON 302  Intermediate Macroeconomics 3

One of the following three pairs:

A1. MATH 571  Introduction to Probability Models 3
A2. MTHSTAT 691  Actuarial Models I: Life Contingencies 3
B1. MATH 571  Introduction to Probability Models 3
C1. MTHSTAT 596  Actuarial Statistics I: Fitting of Loss Models 3
C2. MTHSTAT 597  Actuarial Statistics II: Risk Measures, Credibility, and Related Topics 3

Recommended Electives. To achieve the best preparation for the actuarial examinations and for an actuarial career, students should enroll in an internship (MTHSTAT 489), take courses in communication (COMMUN 103, 264), and expand their knowledge in economics (ECON 221, 248). Note that ECON 248 satisfies the cultural diversity requirement.

Students may find information regarding the actuarial profession by checking the web pages of the Department of Mathematical Sciences or those of the Society of Actuaries (www.soa.org).

Atmospheric Science Major

The atmospheric science division of the department offers courses designed to prepare students for professional work in meteorology in both government and private service and for graduate study in atmospheric sciences. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. The following courses are required for the atmospheric science major.

Additional Preparatory Curriculum. In addition to the preparatory curriculum required of all mathematical sciences
majors, the following courses are required. These courses do not count in calculating the major GPA.

MATH 234  Linear Algebra and Differential Equations
CHEM 102  General Chemistry
PHYSICS 209/214  Physics I (Calculus Treatment)
PHYSICS 210/215  Physics II (Calculus Treatment)

Required Courses (Core)

ATM SCI 240  Introduction to Meteorology
ATM SCI 330  Air-Pollution Meteorology
ATM SCI 350  Atmospheric Thermodynamics
ATM SCI 351  Dynamic Meteorology I
ATM SCI 352  Dynamic Meteorology II
ATM SCI 360  Synoptic Meteorology I
ATM SCI 361  Synoptic Meteorology II
ATM SCI 464  Cloud Physics
ATM SCI 511  Seminar in Atmospheric Radiation and Remote Sensing
ATM SCI 599  Capstone Experience
MATH 320  Introduction to Differential Equations

Electives â€“ at least 9 credits from the following courses:

ATM SCI 320  Atmospheric Chemistry
ATM SCI 460  Mesoscale Circulations
ATM SCI 465  Meteorological Instrumentation
ATM SCI 470  Tropical Meteorology
ATM SCI 480  The General Circulation and Climate Dynamics
ATM SCI 497  Study Abroad: (Subtitle)
ATM SCI 505  Micrometeorology
ATM SCI 531  Numerical Weather Prediction
ATM SCI 690  Topics in Atmospheric Sciences: (Subtitle)
MATH 313  Linear Programming and Optimization
MATH 314  Mathematical Programming and Optimization
MATH 321  Vector Analysis
MATH 322  Introduction to Partial Differential Equations
MATH 405  Mathematical Models and Applications
MATH 413  Introduction to Numerical Analysis
MATH 415  Introduction to Scientific Computing
MATH 417  Computational Linear Algebra
MATH 471  Introduction to the Theory of Probability
MATH 521  Advanced Calculus
MATH 522  Advanced Calculus
MATH 535  Linear Algebra
MATH 571  Introduction to Probability Models
MATH 581  Introduction to the Theory of Chaotic Dynamical Systems
MATH 601  Advanced Engineering Mathematics I
MATH 602  Advanced Engineering Mathematics II
MATH 615  Numerical Solution of Partial Differential Equations for Scientific Computing
MATH 617  Optimization
MTHSTAT 361  Introduction to Mathematical Statistics I
MTHSTAT 362  Introduction to Mathematical Statistics II
MTHSTAT 467  Introductory Statistics for Physical Sciences and Engineering Students
MTHSTAT 563  Regression Analysis
MTHSTAT 564  Time Series Analysis
Mathematics Major

Upper-division math refers to any MATH or MTHSTAT course at the 300 level or above. Sequence refers to any of the following pairs of courses: 313/314, 320/322, 361/362, 413/415, 413/417, 415/417, 413/615, 413/617, 415/615, 521/522, 531/535, 621/622, 631/632.

Many courses fall naturally into groups:


Computational mathematics group: MATH 313, 314, 413, 415, 417, 615, 617.

Probability and statistics group: MATH 471, 571; MTHSTAT 361, 362, 561, 562, 563, 564, 565, 567, 568, 569.

Pure mathematics group:  
I. MATH 521, 531, 535, 551, 621, 631;  
II. MATH 451, 453, 511, 522, 529, 537, 553, 555, 622, 632.

Basic Mathematics Major. Students electing the basic mathematics major must complete MATH 341 and 24 additional upper-division math credits, including at least 3 each from the applied math, computational math, probability and statistics, and pure math I groups. At least one sequence is required among these 24 upper-division math credits. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including transfer work.

Specialization Options

The following four options add a specialty to the basic math major. Students must complete the requirements of the basic math major as stated above as well as the appropriate course requirements for the specialties, as listed below. Completion of any of the specialty options requires at least 30 upper-division math credits, in addition to MATH 341.

Applied Mathematics Option. At least 9 credits from the applied math group, 9 from the computational math group, and 6 from the probability and statistics group; two courses from COMPSCI 151 or 153, 201, and 251.

Computational Mathematics Option. At least 6 credits from the applied math group, 12 from the computational math group, and 6 from the probability and statistics group; all of COMPSCI 151 or 153, 201, 251, 317, 351, and 535.

Pure Mathematics Option. At least 18 credits from the pure math group, with at least 9 from the pure math I group; COMPSCI 151 or 153 or 201.

Statistics Option. Students must complete the following:

Additional Preparatory Curriculum

MTHSTAT 215 Elementary Statistical Analysis 3  
At least one selection from:  
COMPSCI 151 Introduction to Scientific Programming in Fortran 3  
COMPSCI 153 Introduction to Scientific Programming in C++ 3  
or both  
COMPSCI 201 Introductory Computer Programming 3  
and  
COMPSCI 251 Intermediate Computer Programming 4  

Core Curriculum  
At least one of the following two sequences:
MATH 521 and 522  Advanced Calculus  6
MATH 621 and 622  Introduction to Analysis  6

All of the following three courses:  

MTHSTAT 361  Introduction to Mathematical Statistics I  3
MTHSTAT 362  Introduction to Mathematical Statistics II  3
MTHSTAT 563  Regression Analysis  3

At least three of the following:

MTHSTAT 562  Design of Experiments  3
MTHSTAT 564  Time Series Analysis  3
MTHSTAT 565  Nonparametric Statistics  3
MTHSTAT 568  Multivariate Statistical Analysis  3
MATH 571  Introduction to Probability Models  3

Preparation for Graduate Work in Mathematical Sciences. It is recommended that students who plan to do graduate work in mathematical sciences complete as many as possible of the following courses: MATH 521, 522, 531 and 535 (or 631 and 632), 551, and 623. Many graduate programs require reading knowledge of French, German, or Russian.

Course of Study: Minors

Actuarial Science Minor. Admission to this minor requires a minimum grade point average of 2.5 in MATH 231, 232, and 233. Students who have completed these courses with the required grade point average may complete a formal declaration of minor at the department office. These three courses do not count in the minor GPA. The following courses are required:

MATH 234  Linear Algebra and Differential Equations  4
MATH 311  Theory of Interest  3
MTHSTAT 361  Introduction to Mathematical Statistics I  3
MTHSTAT 362  Introduction to Mathematical Statistics II  3

One of the following, with a grade of B- or better in each course taken:

BUS ADM 450  Intermediate Finance  3
or both
ECON 301  Intermediate Microeconomics  3
and
ECON 302  Intermediate Macroeconomics  3

Students must complete at least 9 upper-division (numbered 300 and above) credits for the minor in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

Atmospheric Science Minor. The minor consists of a minimum of 18 credits in atmospheric science. Six of these credits must include ATM SCI 240 and 360. The remaining 12 Atm Sci credits must be at the 300 level or above. Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

Mathematics Minor. Students minoring in mathematics must complete MATH 231, 232, and 233 or an equivalent math sequence with a GPA of at least 2.5. They must take 12 credits in mathematical sciences (curricular areas MATH and MTHSTAT) courses numbered 300 and above, at least 9 of them in residence at UWM. MATH 234 may substitute for 3 of these 12 credits. All courses chosen to complete the 12-credit requirement must be approved by the associate chair of the Department of Mathematical Sciences. Students must complete at least 9 upper-division (numbered 300 and
above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

**Applied Mathematics and Computer Science**

A related degree program is Applied Mathematics and Computer Science (AMCS), offered and awarded jointly by the College of Letters & Science Department of Mathematical Sciences and the College of Engineering and Applied Science Department of Computer Science. This program allows students to study a mixture of mathematics and computer science suited to their natural interests and ambitions. It highlights the unity of the fields of mathematical sciences and computer science, while still providing a firm foundation for all areas of applied and computational mathematics and computer science. For further information, please refer to the Inter-School/College Programs section of this catalog, and visit the program's web page at [www4.uwm.edu/letsci/math/undergraduate/majors/cs.cfm](http://www4.uwm.edu/letsci/math/undergraduate/majors/cs.cfm).

**Courses**

**Atmospheric Sciences (ATM SCI)**

**Mathematics (MATH)**

**Mathematical Statistics (MTHSTAT)**

**Faculty**

**Fredric D. Ancel, Prof., PhD**
University of Wisconsin-Madison

**James E. Arnold, Jr., Assoc. Prof. Emeritus, PhD**

**Jay H. Beder, Prof., PhD, Asst. Chair**
George Washington University

**Allen D. Bell, Assoc. Prof., PhD**
University of Washington

**Vytaras Brazauskas, Prof., PhD**
University of Texas at Dallas

**Suzanne L. Boyd, Assoc. Prof., PhD**
Cornell University

**Karen M. Brucks, Assoc. Prof., PhD**
University of North Texas
Associate Dean, College of Letters & Science

**Clark Evans, Asst. Prof., PhD**
Florida State University

**Dashan Fan, Prof., PhD**
Washington University

**Daniel Gervini, Assoc. Prof., PhD**
Universidad de Buenos Aires

**Jugal K. Ghorai, Prof., PhD**
Purdue University

Craig R. Guilbault, Prof., PhD, Graduate Dir.
University of Tennessee

Robert L. Hall, Assoc. Prof. Emeritus, PhD

Peter Hinow, Asst. Prof., PhD
Vanderbilt University

Ingrid Holzner, Sr. Lect. Emerita, MS

G. Christopher Hruska, Assoc. Prof., PhD
Cornell University

University of Michigan

Eric S. Key, Prof., PhD
Cornell University

Kelly Kaiser Kohlmetz, Sr. Lect., PhD
University of Wisconsin-Milwaukee

Sergey Kravtsov, Assoc. Prof., PhD
Florida State University

Vincent Larson, Prof., PhD
Massachusetts Institute of Technology

Istvan G. Lauko, Assoc. Prof., PhD
Texas Tech University

Cheng-Ming Lee, Prof. Emeritus, PhD

Tzu-Chu Lin, Assoc. Prof., PhD
University of Iowa

Wiliam Mandella, Sr. Lect., MS
University of New Orleans

Kevin B. McLeod, Assoc. Prof., PhD
University of Minnesota

Genevieve T. Meyer, Instr. Emerita

Richard J. Mihalek, Assoc. Prof. Emeritus, PhD

Albert J. Milani, Prof. Emeritus, PhD

Robert H. Moore, Assoc. Prof. Emeritus, PhD

Ian M. Musson, Prof., PhD
University of Warwick, U.K.

Thomas O’Bryan, Assoc. Prof. Emeritus, PhD
Richard J. O’Malley, Prof. Emeritus, PhD

Boris L. Okun, Prof., PhD
State University of New York at Binghamton

Dattatraya J. Patil, Assoc. Prof. Emeritus, PhD

Gabriella Pinter, Assoc. Prof., PhD
Texas Tech University

Paul Roebber, Distinguished Prof., PhD
McGill University

David H. Schultz, Prof. Emeritus, PhD

Steven Schwengels, Sr. Lect., MS
University of Wisconsin-Milwaukee

Lindsay A. Skinner, Prof. Emeritus, PhD

Donald W. Solomon, Assoc. Prof. Emeritus

Richard Stockbridge, Prof., PhD
University of Wisconsin-Madison

Lijing Sun, Asst. Prof., PhD
Wayne State University

Kyle Swanson, Prof., PhD, Chair
University of Chicago

Anastasios Tsonis, Distinguished Prof., PhD
McGill University

Hans W. Volkmer, Prof., PhD
University of Konstanz

Bruce A. Wade, Prof., PhD
University of Wisconsin-Madison

Lei Wang, Asst. Prof., PhD
University of Michigan

Gilbert G. Walter, Prof. Emeritus, PhD

Wei Wei, Asst. Prof., PhD
University of Waterloo

Jeb Willenbring, Assoc. Prof., PhD
University of California, San Diego

Dexuan Xie, Prof., PhD
University of Houston

Chao Zhu, Assoc. Prof., PhD
The Certificate Program in Peace Studies and Conflict Resolution is a multidisciplinary program with the aim of analyzing and understanding factors that encourage or inhibit war, peace, violence, conflict, or cooperation. The program provides students with practical skills and ideas to help people communicate and cooperate better in order to make sustainable organizational and societal change.

Eligibility

The certificate in peace studies and conflict resolution is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. The program leading to the certificate is open to students majoring in any field.

Course of Study

A student must complete 18 credits in the program; nine of these must be in advanced courses (300-level and above). All students are required to complete an exit survey before the certificate is awarded.

A 2.50 GPA must be achieved in courses prescribed for the certificate. At least one-half of the work for the certificate must be completed at UWM.

Students interested in the peace studies and conflict resolution certificate program should consult with the coordinator or the advisor to plan a program.

There are three components to the program:

I. Required Courses: Two of the following five courses (6 credits):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEACEST 201</td>
<td>Introduction to Conflict Resolution and Peace</td>
</tr>
<tr>
<td>COMMUN 520</td>
<td>Negotiation Workshop</td>
</tr>
<tr>
<td>COMMUN 665</td>
<td>Introduction to Mediation</td>
</tr>
<tr>
<td>COMMUN 675</td>
<td>International Mediation</td>
</tr>
<tr>
<td>POL SCI 175</td>
<td>Introduction to International Relations</td>
</tr>
</tbody>
</table>

II. Required Fieldwork (3 credits):

The purpose of this requirement is to enable the student to engage in peace studies through "practical" experience or research. The student should be engaged in the "practice of peace" through community service, conflict identification and education, environmental awareness, governmental politics, or social change. The area of study must be approved by the coordinator of the peace studies certificate and must meet the requirements of the department through which it is being completed. The fieldwork requirement may be fulfilled in one of three ways: an internship, study abroad, or independent study.

III. Elective Courses (9 credits):

Students are encouraged to construct an area of concentration from their elective credits. Suggested areas of concentration may be geographic and/or thematic, such as:
Following is the list of approved courses. For the specific content and prerequisites of each course, see its listing under the originating department elsewhere in this catalog. Additional courses may be approved with the consent of the Peace Studies and Conflict Resolution Program coordinator.

AFRICOL 218 Conflict and Cooperation in Black-White Relations
AFRICOL 265 Psychological Effects of Racism
AFRICOL 300 Urban Violence
AFRICOL 322 Order and Disorder: The Quest for Social Justice
CES 210 Introduction to Conservation and Environmental Science
CES (Bio Sci) 471 Principles of Natural Resource Management
CES 490 Senior Seminar: Conservation and Environmental Science
COMMUN 350 Intercultural Communication
COMMUN 363 Communication in Human Conflict
(263)*
COMMUN 365 (520) Negotiation Skills Workshop
COMMUN 500 Communication and Community Service (with appropriate project setting)
COMMUN 665 Introduction to Mediation
COMMUN 675 Communication in International Mediation and Peacebuilding
COMPLIT 230 Literature and Society: ("Existentialism" subtitle)
COMPLIT 231 Literature and Religion: ("Literature of the Holocaust" subtitle)
COMPLIT 232 Literature and Politics: (with appropriate subtitle)
COMPLIT 233 Literature and Film: ("Film and War" subtitle)
COMPLIT 433 Comparative Mythology
CRM JST 416 Domestic Violence Research
CRM JST 420 Violence and the Criminal Justice System
ECON 353 (474) Economic Development
EDUCPOL 411 Conflict and Change
EDUCPOL 520 Peace Education
EDUCPOL 521 Nonviolence in Education
EDUCPOL 522 Abusive Relationships: Community Problems, Community Solutions
ENGLISH 247 Literature and Human Experience: ("Literature of the Ecological Vision" subtitle)
ENGLISH 293 Literature and Media: ("African American Literature on Film" subtitle)
ENV STD 210 Environmental Dynamics
ENV STD 490 Senior Seminar: Conservation and Environmental Science
EXCEDUC 617 Cooperative Learning: Creative Conflict
GEOG 120 Our Physical Environment
GEOG 125 Introduction to Environmental Geography
GEOG 350 Conservation of Natural Resources
GLOBAL 101 Introduction to Global Studies I: People and Politics
GLOBAL 201 Introduction to Global Studies II: Economics and the Environment
GLOBAL 202 Introduction to Global Studies III: Globalization and Technology
GLOBAL 371 Rethinking Global Security
GLOBAL 471 Strategies for Realizing Security in Global Contexts
GLOBAL 499 Ad Hoc: (with appropriate subtitle)
HEBRST 275 Introduction to Middle Eastern and Western Religions
HIST 200 Historical Roots of Contemporary Issues: ("Civil Strife in Northern Ireland" subtitle)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 249</td>
<td>The Second World War in Europe</td>
</tr>
<tr>
<td>HIST 275</td>
<td>Introduction to Middle Eastern and Western Religions</td>
</tr>
<tr>
<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
</tr>
<tr>
<td>HIST 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
</tr>
<tr>
<td>HIST 286</td>
<td>The Korean War</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
</tr>
<tr>
<td>HIST 363</td>
<td>Germany: Hitler and the Nazi Dictatorship</td>
</tr>
<tr>
<td>HIST 434</td>
<td>The United States as a World Power in the Twentieth Century</td>
</tr>
<tr>
<td>HIST 440</td>
<td>History of the American Working Classes</td>
</tr>
<tr>
<td>HIST 457</td>
<td>Military History of the United States</td>
</tr>
<tr>
<td>INTLST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
</tr>
<tr>
<td>PEACEST 201*</td>
<td>Introduction to Conflict Resolution and Peace</td>
</tr>
<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
</tr>
<tr>
<td>PHILOS 244</td>
<td>Ethical Issues in Health Care: (with appropriate subtitle)</td>
</tr>
<tr>
<td>PHILOS 255</td>
<td>Philosophy of Political Action</td>
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<tr>
<td>PHILOS 271</td>
<td>Philosophical Traditions: (&quot;Western Great Lakes American Indian Philosophy&quot; subtitle)</td>
</tr>
<tr>
<td>PHILOS 275</td>
<td>Introduction to Middle Eastern and Western Religions</td>
</tr>
<tr>
<td>PHILOS 355</td>
<td>Political Philosophy</td>
</tr>
<tr>
<td>PHILOS 475</td>
<td>Special Topics in Indian Religious Thought: (&quot;Gandhi and Nonviolence&quot; subtitle)</td>
</tr>
<tr>
<td>POL SCI 175*</td>
<td>Introduction to International Relations</td>
</tr>
<tr>
<td>POL SCI 316</td>
<td>International Law</td>
</tr>
<tr>
<td>POL SCI 328</td>
<td>The Arab-Israeli Conflict</td>
</tr>
<tr>
<td>POL SCI 333</td>
<td>Seminar in Comparative Politics: (&quot;Collective Violence and the State&quot; subtitle)</td>
</tr>
<tr>
<td>POL SCI 337</td>
<td>International Organization and the United Nations</td>
</tr>
<tr>
<td>POL SCI 338</td>
<td>Seminar in International Relations: (Subtitle)</td>
</tr>
<tr>
<td>POL SCI 340</td>
<td>Politics of Nuclear Weapons</td>
</tr>
<tr>
<td>POL SCI 359</td>
<td>Problems of American Foreign Policy</td>
</tr>
<tr>
<td>POL SCI 361</td>
<td>History of International Political Thought</td>
</tr>
<tr>
<td>POL SCI 365</td>
<td>Theories and Methods in International Politics</td>
</tr>
<tr>
<td>POL SCI 370</td>
<td>International Conflict</td>
</tr>
<tr>
<td>POL SCI 371</td>
<td>Nationalism and Ethnic Conflict</td>
</tr>
<tr>
<td>POL SCI 419</td>
<td>Constitutional Interpretation</td>
</tr>
<tr>
<td>POL SCI 464</td>
<td>Women and the Law</td>
</tr>
<tr>
<td>PSYCH 611</td>
<td>Current Topics: (&quot;Psychology of Conflict, War, and Peace&quot; subtitle)</td>
</tr>
<tr>
<td>SOCIOL 215</td>
<td>Religion and Society</td>
</tr>
<tr>
<td>SOCIOL 325</td>
<td>Social Change</td>
</tr>
<tr>
<td>SOCIOL 450</td>
<td>Environmental Sociology</td>
</tr>
<tr>
<td>THEATRE 204</td>
<td>Participatory Theatre</td>
</tr>
</tbody>
</table>

* If not selected in Section I.

Courses

**Peace Studies (PEACEST)**

Web Home Pages:  
[ College of Letters & Science ]  
[ Peace Studies ]
A problem may be called "philosophical" when it has depth and universality, far-reaching theoretical ramifications, human importance, and no easy solution. Philosophical problems constitute the subject matter of philosophy.

Academic courses in philosophy have the value of introducing the crucial problems in a systematic way, exposing students to fruitful methods for attacking them, to models of solid, hard-hitting argumentation, and to a literature ranging from Plato’s *Dialogues* to current professional journals. The relevance of philosophy is nowhere better exhibited than in the distinctions ignored, the arguments overlooked, and the errors repeated by persons unfamiliar with that literature.

At UWM, incoming freshmen interested in studying philosophy are advised to begin with the general introductory course, Philos 101, though there are several courses, especially at the 200 level, that are open to students without a background in philosophy. The 300 level includes courses designed to provide more in-depth treatments of traditional philosophical areas. Courses at the 400 level are devoted to the history of philosophy. Courses at the 500 level deal with specific issues and problems.

**Course of Study: Major**

The philosophy major is intended to meet the needs of four groups of students: (1) those who wish to use philosophy as the organizing core of a liberal education; (2) those who wish to study philosophy in preparation for graduate work in some other field, such as law, government, or theology; (3) those who wish to major jointly in philosophy and one of the social sciences, natural sciences, or humanities; and (4) those who have or may acquire a professional interest in philosophy and who plan to go on to graduate work in the subject.

Students planning to major in philosophy should consult with the department undergraduate program coordinator at the beginning of their junior year or, if transferring from another major, upon deciding to transfer. At that time they will fill out a declaration of major form.

The College requires that students complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. Students also must attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, they must attain a 2.5 GPA on all major credits attempted, including any transfer work.

The following are required:

1. A minimum of 30 credits in philosophy.

2. The following three courses:

   PHILOS 211  Elementary Logic  3
PHILOS 430 History of Ancient Philosophy 3
PHILOS 432 History of Modern Philosophy 3

(Philos 212, Modern Deductive Logic, or a more advanced course in logic may be substituted for Philos 211 with the permission of the department chair.)

3. At least one course from each of the following groups:

**Group A**

PHILOS 341 Modern Ethical Theory 3
PHILOS 349 Great Moral Philosophers 3
PHILOS 355 Political Philosophy 3

**Group B**

PHILOS 303 Theory of Knowledge 3
PHILOS 317 Metaphysics 3
PHILOS 324 Philosophy of Science 3
PHILOS 351 Philosophy of Mind 3

**Group C**

Any philosophy course (excluding Philos 685) numbered 500 or above and carrying 3 credits.

4. Philosophy electives of the student’s choice to reach a total of 30 credits. At least 15 of these 30 credits must be taken at the 300 level or above in residence at UWM.

5. Capstone/research requirement. Choose one of the following two courses:

PHILOS 681 Seminar in Advanced Topics: (Subtitle)
PHILOS 685 Senior Capstone Research Seminar: (Subtitle)

It is expected that the required courses in the history of philosophy – Philos 430 and 432 – will be taken as soon as the student decides to major in philosophy (normally during the junior year). Students must fulfill the capstone/research requirement in the senior year. It is recommended strongly that students become proficient in at least one related academic discipline. Each major will be asked to submit a paper for inclusion in a portfolio that is kept in the department. Typically, this will be a paper written for the "Senior Capstone Research Seminar" (Philos 685). It should be stressed that this is not an additional requirement for graduation as a major. Rather, it is part of the department’s ongoing effort to evaluate and improve our major program.

**HONORS IN THE MAJOR**

Prior to the beginning of their senior year, philosophy majors who maintain a 3.5 GPA in courses in the major may apply to the undergraduate program coordinator for special honors work in philosophy. Upon successful completion of that work, the students are recommended by the department for graduation with honors in philosophy. The special work normally involves participation in Philos 681 or 685, earning a grade of A- or above.

**Course of Study: Minor**
Students who plan to major in another discipline but who wish to enhance their studies with a substantial amount of coursework in philosophy may elect a minor in philosophy. The minor requires 21 credits in philosophy, including Philos 211 or 430 or 432. Twelve credits are required at the 300 level or above, 9 of which must be taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work. Students wishing to minor in philosophy should consult with the undergraduate program coordinator in order to complete a declaration of minor form and be assigned a departmental advisor.

**Courses (PHILOS)**

**Faculty**

**Margaret Atherton, Distinguished Prof., PhD**
Brandeis University

**Miren Boehm, Asst. Prof., PhD**
University of California, Irvine

**William Bristow, Assoc. Prof., PhD**
Harvard University

**Luca Ferrero, Assoc. Prof., PhD**
Harvard University

Bernard L. Gendron, Prof. Emeritus, PhD

Carl G. Hedman, Prof. Emeritus, PhD

**Edward Hinchman, Assoc. Prof., PhD**
University of Michigan - Ann Arbor

**Stan Husi, Asst. Prof., PhD**
Rice University

Haig Khatchadourian, Prof. Emeritus, PhD

John L. Koethe, Distinguished Prof. Emeritus, PhD

**Stephen Leeds, Distinguished Prof., PhD**
Massachusetts Institute of Technology

**Michael N. Liston, Assoc. Prof., PhD**
University of California, San Diego
Associate Dean, Graduate School

David R. Luce, Assoc. Prof. Emeritus, PhD

**Fabrizio G. Mondadori, Prof., PhD**
Harvard University

Walter G. Neveel, Jr., Assoc. Prof. Emeritus, PhD

**Blain Neufeld, Assoc. Prof., PhD**
University of Michigan-Ann Arbor

**Robert A. Schwartz, Distinguished Prof., PhD**
The principles of physics provide the underpinnings for many of the scientific and technological advances of the last several decades. Because of this, physics coursework is taken by students majoring in virtually every scientifically-based field, e.g., engineering, nursing, architecture, pre-medicine, biochemistry, chemistry, computer science, geology, mathematics, meteorology, etc. Students in other fields take less comprehensive physics or astronomy courses in order to attain basic scientific literacy. The operational use of mathematics in the 100- and 200-level courses is indicated by the prerequisite math placement level.

Among the less comprehensive courses is Physics 100, a course for students who feel a need for additional preparation before taking a required physics course. Other topical courses include Astronomy 103, Physics 107, Physics 109, and Physics 133. There also are occasional one-time course offerings of this nature. They will be listed in class schedules and on bulletin boards when they are offered. Physics 110 is designed for students in the health sciences. Physics 120 and 122 are non-calculus introductory physics courses. Optional laboratories for these courses are Physics 121 and 123. Astronomy 175 and Physics 185 are courses for elementary teachers. Students in the College of Engineering and Applied Science take Physics 209 and 210; they also should consider taking Physics 309.

Physics 209, 210, 214, 215, and 309 are appropriate for students majoring in the sciences. These courses are recommended strongly for all students who plan to take any courses beyond the general physics level. Physics 120/121 and 209/214 treat similar subject matter but with different degrees of mathematical sophistication. Any combination of these courses carries a maximum of 5 credits towards graduation. Similarly, Physics 122/123 and 210/215 treat similar subject matter but with different degrees of mathematical sophistication. Any combination of these courses carries a maximum of 5 credits toward graduation.

At the advanced undergraduate level the Department of Physics offers instruction in the classical and modern fields of physics. Experimental research facilities are available in the areas of condensed matter, surface science, biophysics, and optics. Theoretical studies are conducted in relativity and cosmology, high energy physics, biophysics, medical imaging, and condensed matter physics. Joint study with other departments also can be arranged.

Course of Study: Major

Freshmen who enter with scores of 4 or 5 on the Physics Advanced Placement exam given by CEEB are given partial credit for the introductory courses.

Students who have a combined GPA of 2.5 or above in all mathematics and physics courses taken in the first two years will be approved for a major in physics. This requirement will be waived in those cases where students are able to show evidence of unusual circumstances.

The department offers two study options. The standard physics major is for students who seek a general physics degree.
The physics major with astronomy emphasis is for students who wish to pursue their interest in astronomy. While the standard physics major generally is followed by students who plan to go on to graduate school, the major with astronomy emphasis also enables students to pursue graduate work in physics.

Both options require that students take at least 15 credits in advanced-level (numbered 300 and above) courses in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. All students in the College are required to complete a research experience in their majors. Physics majors meet this requirement by successfully completing one of the following upper-level, 3-credit laboratory courses:

- PHYSICS 406 Introduction to Infrared Microspectroscopy
- PHYSICS 408 Experiments in Linear Electronics
- PHYSICS 409 Modern Physics Laboratory
- PHYSICS 410 Optics Laboratory
- PHYSICS 670 Electron Microscopy Laboratory

or

- PHYSICS 391 Undergraduate Research Participation

The research proposal must be approved by the Undergraduate Advisor and the Departmental Undergraduate Committee; it must demonstrate clear pedagogical value. Unfocused laboratory internships are not acceptable.

Students who intend to double-major in physics and engineering may substitute some specific engineering courses for required physics courses. See the list of possible substitutes below, following the requirements for the major with astronomy emphasis.

**Standard Physics Major**

A minimum of 41 credits in physics, of which 15 must be taken in advanced-level (numbered 300 and above) courses in residence at UWM, are required, including:

- a. Two semesters of calculus-based introductory physics
  - PHYSICS 209 Physics I (Calculus Treatment) 4
  - PHYSICS 214 Lab Physics I (Calculus Treatment) 1
  - PHYSICS 210 Physics II (Calculus Treatment) 4
  - PHYSICS 215 Lab Physics II (Calculus Treatment) 1
- b. PHYSICS 309 Physics III: Modern Physics 3
- c. PHYSICS 270 Introduction to Computational Physics 3
  OR
  - PHYSICS 370 Computational Physics 3
- d. PHYSICS 317 Thermodynamics 3
- e. One of the following advanced laboratory courses:
  (Note: These courses are NOT offered every semester; check with the undergraduate advisor to plan for completing this requirement.)
  - PHYSICS 406 Introduction to Infrared Microspectroscopy 3
  - PHYSICS 408 Experiments in Linear Electronics 3
  - PHYSICS 409 Modern Physics Laboratory 3
  - PHYSICS 410 Optics Laboratory 3
  - PHYSICS 670 Electron Microscopy Laboratory 3
  OR
  - PHYSICS 391 Undergraduate Research Participation

The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.
### Physics Major

**Physics 411** Mechanics 4
**Physics 420** Electricity and Magnetism I 3
**Physics 422** Electricity and Magnetism II 3
**Physics 441** Introduction to Quantum Mechanics I 4
**Physics 442** Introduction to Quantum Mechanics II 3

Students who major in both physics and engineering are not required to take PHYSICS 442; however, it is recommended strongly that they do so.

**Total: 39 credits**

**k. Electives from Physics or Astronomy courses 300 level or above, minimum 2 cr., selected from the following list:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRON 300</td>
<td>Astronomy I</td>
<td>3</td>
</tr>
<tr>
<td>ASTRON 320</td>
<td>Astronomy II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 305 (405)</td>
<td>Medical Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 306</td>
<td>Introduction to Biophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 325</td>
<td>Optics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 370</td>
<td>Computational Physics (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation</td>
<td>1-6</td>
</tr>
<tr>
<td>PHYSICS 406</td>
<td>Introduction to Infrared Microspectroscopy (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 408</td>
<td>Experiments in Linear Electronics (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 409</td>
<td>Modern Physics Laboratory (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 410</td>
<td>Optics Laboratory (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 515</td>
<td>Statistical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 517</td>
<td>Special Relativity</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 531</td>
<td>Principles of Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 532</td>
<td>Principles of Quantum Mechanics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 541</td>
<td>Elementary Particles</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 551</td>
<td>Introduction to Solid State Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 651</td>
<td>Introduction to Solid State Physics II</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 670</td>
<td>Electron Microscope Laboratory (if not selected above)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Physics Major with Astronomy Emphasis**

**a. Two semesters of calculus-based introductory physics**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYSICS 209</td>
<td>Physics I (Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 214</td>
<td>Lab Physics I (Calculus Treatment)</td>
<td>1</td>
</tr>
<tr>
<td>PHYSICS 210</td>
<td>Physics II (Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 215</td>
<td>Lab Physics II (Calculus Treatment)</td>
<td>1</td>
</tr>
</tbody>
</table>

**b. PHYSICS 309** Physics III: Modern Physics 3

**c. PHYSICS 370** Computational Physics 3

**d. PHYSICS 317** Thermodynamics 3

**e. PHYSICS 325** Optics 3

**f. PHYSICS 410** Optics Laboratory 3

**g. PHYSICS 411** Mechanics 4

**h. PHYSICS 420** Electricity and Magnetism I 3

**i. PHYSICS 422** Electricity and Magnetism II 3

**j. PHYSICS 441** Introduction to Quantum Mechanics I 4

**k. PHYSICS 442** Introduction to Quantum Mechanics II 3

**l. ASTRON 104** Astronomy Laboratory 1

**m. ASTRON 400** Astrophysics I 3

**n. ASTRON 401** Astrophysics II 3

**o. 6 credits of electives from the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRON 381</td>
<td>Honors Seminar: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>ATM SCI 110</td>
<td>The Origin, Composition, and Structure of Planetary Atmospheres</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 120</td>
<td>Geology of the Planets</td>
<td>3</td>
</tr>
<tr>
<td>PHYSICS 391</td>
<td>Undergraduate Research Participation</td>
<td>1-6</td>
</tr>
</tbody>
</table>
Students are advised strongly to take the following courses as part of their electives:
CHEM 102 General Chemistry 5
CHEM 104 General Chemistry and Qualitative Analysis 5
COMMUN 103 Public Speaking 3
ENGLISH 206 Technical Writing 3

Possible Course Substitutions for Students with Physics and Engineering Double Majors

One of the following courses may be substituted for PHYSICS 270 or 370:
CIV ENG 280 Computer-Based Engineering Analysis 3
COMPSCI 151 Introduction to Scientific Programming in Fortran 3
COMPSCI 201 Introductory Computer Programming 3

The following course may be substituted for PHYSICS 317:
MECHENG 301 Basic Engineering Thermodynamics 3

The combination of both Civ Eng 201 Statics, 3 cr., and 202 Dynamics, 3 cr., may substitute for Physics 411. Students who major in both physics and engineering are not required to take Physics 442; however, it is recommended strongly that they do so.

Course of Study: Minor

A minor in physics requires 18 credits, of which 9 credits must be in courses at the 300 level or above taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work. There is latitude in the choice of credits. Students majoring in engineering or computer science should consider optics (Physics 325), and the optics lab (Physics 410), fundamentals of acoustics (Physics 511), and an appropriate short course (Physics 361). Science or math education majors should take thermodynamics (Physics 317), optics (Physics 325) and general astronomy (Astron 300). Math majors will find complementary subject matter in mechanics (Physics 411), electricity and magnetism (Physics 420 and 422), and special relativity (Physics 517). Students are required to consult with the physics advisor when planning their minor programs of study.

For the teaching minor, see the School of Education section of this catalog.

Courses (PHYSICS)

Faculty and Staff

Daniel Agterberg, Prof., PhD
University of Toronto

Luis Anchordoqui, Asst. Prof., PhD
Universidad Nacional de La Plata, Argentina

Donald E. Beck, Prof. Emeritus, PhD

Patrick Brady, Prof., PhD
University of Alberta

Philip Chang, Asst. Prof., PhD
University of California, Santa Barbara

Yutze Chow, Prof. Emeritus, PhD

Jean Creighton, Admin. Prog. Mgr., PhD
University of Waterloo, Ontario
Jolien Creighton, Prof., PhD
University of Waterloo, Ontario

Richard H. Dittman, Prof. Emeritus, PhD

Dawn Erb, Asst. Prof., PhD
California Institute of Technology

John L. Friedman, Distinguished Prof. Emeritus, PhD

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Yale University

David Kaplan, Asst. Prof., PhD
California Institute of Technology

Moises Levy, Prof. Emeritus, PhD

Lian Li, Prof., PhD
Arizona State University at Tempe

Elihu Lubkin, Assoc. Prof. Emeritus, PhD

Paul Lyman, Prof., PhD
University of Pennsylvania

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Wolfson College, Oxford

Leonard E. Parker, Distinguished Prof. Emeritus, PhD

Sarah Patch, Assoc. Prof., PhD
University of California, Berkeley

Valerica Raicu, Assoc. Prof., PhD, Chair
University of Bucharest, Romania

Dilano K. Saldin, Prof., PhD
Oxford University

Bimal K. Sarma, Prof., PhD, Assoc. Chair
Northwestern University

Marius Schmidt, Asst. Prof., PhD
Slavic Languages

- Web Home Pages:
  - College of Letters & Science
  - Slavic Languages
- Course of Study: Russian Major
- Course of Study: Russian Minor
- Courses: Polish (POLISH)
- Courses: Russian (RUSSIAN)
- Courses: Serbo-Croatian (SRB-CRO)
- Courses: Ukrainian (UKRNIAN)

The Slavic Languages program offers coursework in Polish and Russian; on occasion, courses in Serbo-Croatian and Ukrainian are taught. Through the study of these languages, students gain exposure to the literature and culture of the eastern European areas in which these languages are spoken. The program offers a major in Russian. In addition, the Slavic languages are an integral part of the Russian and East European Studies Certificate Program.

Study of these languages may meet the foreign language requirement of the College of Letters & Science. Students with previous high school preparation in any of these areas should consult with the program coordinator to determine the appropriate level at which to begin their language studies. Coursework through the fourth-semester level is designed to prepare students in the four basic language skills: listening comprehension, speaking, reading, and writing. The beginning language sequences are as follows:

**Polish**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Polish 101</td>
<td>First-Semester Polish</td>
<td>4</td>
</tr>
<tr>
<td>Polish 102</td>
<td>Second-Semester Polish</td>
<td>4</td>
</tr>
<tr>
<td>Polish 201</td>
<td>Third-Semester Polish</td>
<td>3</td>
</tr>
<tr>
<td>Polish 202</td>
<td>Fourth-Semester Polish</td>
<td>3</td>
</tr>
</tbody>
</table>

**Russian**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Russian 101</td>
<td>First-Semester Russian</td>
<td>5</td>
</tr>
<tr>
<td>Russian 102</td>
<td>Second-Semester Russian</td>
<td>5</td>
</tr>
<tr>
<td>Russian 201</td>
<td>Third-Semester Russian</td>
<td>4</td>
</tr>
<tr>
<td>Russian 202</td>
<td>Fourth-Semester Russian</td>
<td>4</td>
</tr>
</tbody>
</table>

**Course of Study: Russian Major**

The Russian major requires completion of four semesters of college-level Russian (through Russian 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the major GPA. In addition, majors must complete 30 credits as follows:

- Core courses: 18 additional credits in Russian, including 310 and 311;
- Electives: 12 additional credits in Russian and/or in cross-listed and related courses, selected from the two lists below. A maximum of 3 credits from the list of related courses can count toward this requirement.
Majors must complete at least 15 credits in advanced-level courses (300 and above) in residence at UWM; at least 9 of these credits must be in the Russian curricular area. Students must attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, the College requires that students attain a 2.5 GPA on all major credits attempted, including any transfer work. Major courses taken outside the Russian curricular area count in the major GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study program toward their degree requirements. Students interested in doing extensive study abroad should contact the program coordinator to discuss the college's residency requirement.

As part of their required credits, all students must complete a research experience as required by the College. Students will satisfy this requirement in the context of one of the following courses:

- Russian 391: Russian Literature and Culture in Translation: (Subtitle)
- Russian 699: Supervised Individual Reading

**Cross-listed Courses.** The following courses are approved to satisfy the requirements of the Russian major and minor. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list.

- English 316: World Cinema: "Russian Cinema" subtitle
- Ethnic 250: Selected Topics in Ethnic Studies: "Gender and Ethnicity in and After the USSR" subtitle
- Geog 444: Former Soviet Union: Regional Analysis
- Geog 445: Former Soviet Union: Topical Analysis
- Hist 340: Early Russia Through Ivan the Terrible, Peter the Great, and Catherine the Great
- Hist 341: Imperial Russia: From Despotism to the Bolshevik Revolution
- Hist 343: The Soviet Union: From Lenin to Gorbachev
- Intl St 550: Senior Seminar in International Studies: "Russia in Transition: Media and Values" subtitle
- Pol Sci 310: Politics of the Soviet Union and Its Successor States
- Pol Sci 311: Russian Foreign Policy

**Related Courses.** The following courses are approved to satisfy the requirements of the Russian major. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list. Majors may count a maximum of three credits from the following list toward the major requirements:

- Econ 256: Emerging Markets and Comparative Systems
- Geog 238: East Europe
- Hebr St 103: Introductory Yiddish
- Hist 249: The Second World War in Europe
- Hist 375: Contemporary European History, 1945 to the Present
- Linguistics: All advanced-level courses
- Polish: All courses
- Pol Sci 302: Politics of Eastern Europe

**Course of Study: Russian Minor**

The Russian minor requires completion of four semesters of college-level Russian (through Russian 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the minor GPA. In addition, minors must complete 18 credits as follows:

- Core courses: 6 credits in advanced Russian language courses (310, 311);
- 6 additional credits in the Russian curricular area (language beyond 202, literature, culture, film);
Electives: 6 credits in Russian and/or courses selected from the list of cross-listed courses following the Russian major.

At least 9 credits must be completed in advanced-level courses in residence at UWM; at least 6 of these credits must be in the Russian curricular area. Students must attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, the College requires that students attain a 2.5 GPA on all minor credits attempted, including transfer work. Minor courses taken outside the Russian curricular area count in the minor GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive advanced-level coursework at a Russian university should contact the program coordinator to discuss the College's residency requirement.

Courses

Polish (POLISH)

Russian (RUSSIAN)

Serbo-Croatian (SRB-CRO)

Ukrainian (UKRNIAN)
The Department of Political Science offers a comprehensive curriculum designed to provide a thorough understanding of politics while establishing a foundation for careers in government, law, education, business, and other fields. Undergraduates benefit from the resources of its nationally recognized faculty and strong graduate programs. In addition to courses on political ideas, behavior, and institutions at the local, state, national, and international levels, the department offers opportunities for students to participate in research projects, internship programs, and a program in law studies.

The political science curriculum is divided into five areas: American politics, comparative politics, international politics, political theory, and political methodology.

Course of Study: Major

Majors are required to complete a minimum of 30 credits in political science, of which at least 15 must be in upper-division courses (numbered 300 or above) taken in residence at UWM. The following courses must be included among those taken for major credit:

1. An introductory course: Pol Sci 103 (Introduction to Political Science) or 104 (Introduction to American Government and Politics);

2. A methodology course: Pol Sci 203 (Introduction to Political Science Research), Pol Sci 390 (Political Data Analysis), or Pol Sci 392 (Survey Research);

3. At least one course beyond the 100 level in each of the following four areas of political science: American politics, comparative politics, international politics, and political theory; and

4. Pol Sci 500 (Capstone Course in Political Science). This course, which satisfies the L&S requirement for a research experience in the major, should be taken in the last year of study.

Majors must attain a 2.5 GPA in all political science courses, including any transfer work, and a 2.5 GPA in political science courses taken at UWM.

Course of Study: Law Studies Option

Students may emphasize the study of law within the major by completing, in conjunction with or in addition to all of the requirements outlined above, the courses listed below as part of the 30 credits required for the major. Any of Pol Sci
Required Courses

POL SCI 250  Law and Society
POL SCI 411  Constitutional Law: Government Powers and Federalism
POL SCI 412  Constitutional Law: Civil Rights and Liberties

Two of the following:

POL SCI 316  International Law
POL SCI 384 (560)  The Philosophy of Law [Jointly offered with PHILOS 384 (560)]
POL SCI 416  Trial Courts in the Judicial Process
POL SCI 417  The Supreme Court
POL SCI 419  Constitutional Interpretation
POL SCI 452  Administrative Law
POL SCI 464  Women and the Law
POL SCI 471  Problems in Law Studies: (Subtitle)

Declaring a Major in Political Science

Students who wish to declare a political science major may do so in one of two ways:

Declare Your Political Science Major with an Advisor

Just follow these simple steps:

1. Obtain an unofficial transcript from Enrollment Services (MEL 274) or print one from your PAWS account.
2. Fill out the "Declaration of Major" form, which can be found in Bolton 614.
3. Schedule a meeting with one of the political science advisors (see Undergraduate Advising Hours to email or call to schedule an appointment).
4. Meet with an advisor, determine your course plan, and declare your major.
5. You should also consult with an L&S advisor about general education and college requirements. The Political Science advisors are not trained to help you with those requirements. They can be reached at x4654 in Merrill Hall 142.

Declare Your Political Science Major Online

Students also may declare a Political Science major via email. To do so, you must complete an Online Declaration of Major Form (pdf) and email it to psmajor-add@uwm.edu. An undergraduate advisor will consult your transcript and, pending sufficient credits, will file a declaration of major form with the College of Letters & Science. Prior to making this request, it is very important that you consult all of the requirements for the POL SCI major (see above).

Please allow three to four weeks for processing online declaration requests. We will not send a confirmation email when we have processed your application. Thus, if you do not see a declared Political Science major reflected in your records on PAWS within three to four weeks, please contact an undergraduate Political Science advisor (see Undergraduate Advising Hours).

Also, if you have any questions regarding coursework for the Political Science major, you will need to visit with one of the Political Science undergraduate advisors during their designated office hours or by appointment. We will not conduct advising appointments via email. You should also consult with an L&S advisor about general education and college requirements. They can be reached at x4654 in Merrill Hall 142. Students who have opted to restrict the release of their directory information at UWM should not utilize the online process for declaring a political science major.

Note: The College of Letters & Science requires that students must declare a major upon completing 15 credits and before completing 75 credits. It is extremely important to declare a major as soon as possible after completing 15 credits, so that a Political Science advisor can help you avoid any surprises affecting graduation. This is the responsibility of the student, not the department. The Department of Political Science provides several faculty advisors
who are available to all students, not just to majors. The advisors will provide students with information about political science courses, career opportunities, the political science major, and other matters of interest and importance. Schedule your appointment with an advisor or submit an online application for declaring your major as soon as you complete those 15 credits!

Course of Study: Minor

Minors are required to complete a minimum of 18 credits in political science, of which at least 9 must be in upper-division courses (numbered 300 or above) taken at UWM. Minors must complete courses in at least two of the following four areas: American politics, comparative politics, international politics, and political theory. Students must attain a 2.5 GPA in all political science courses, including any transfer work, and a 2.5 GPA in all political science courses taken at UWM.

Honors and High Honors in Political Science

Departmental honors are awarded upon graduation to students who achieve a 3.5 GPA overall and also in their political science major. Students meeting these GPA requirements will be slated automatically for graduating with honors in the major.

Students who meet the GPA requirement and wish to be considered for departmental high honors should request that the faculty member supervising the substantial research paper, either for the capstone or another course, nominate them for high honors. The supervising faculty member will decide if the student should be recommended to the high honors committee, which is composed of three political science faculty members. The committee will determine if the quality of the nominee's paper is sufficient to earn the high honors designation and, if so, will bestow the high honors accordingly. Note that a student interested in receiving high honors must contact a Political Science faculty member to be considered; high honors are not bestowed automatically.

Questions about honors designations can be directed to any of the Political Science faculty advisors.

COURSES (POL SCI)

Faculty

David Armstrong, Asst. Prof., PhD
University of Maryland

Ivan Asher, Asst. Prof., PhD
University of California, Berkeley

Robert J. Beck, Assoc. Prof., PhD
Georgetown University

John Bohte, Assoc. Prof., PhD
Texas A & M University
Master of Public Administration Director

Kathleen Dolan, Prof., PhD, Chair
University of Maryland

Kennan Ferguson, Assoc. Prof., PhD
University of Hawaii
Undergraduate Program Director

Uk Heo, Prof., PhD
Texas A&M University

Thomas M. Holbrook, Prof., PhD
University of Iowa

Shale A. Horowitz, Prof., PhD
University of California, Los Angeles

Erin (Kaheny) Olsen, Assoc. Prof., PhD
University of South Carolina

Sara (Benesh) Pashak, Assoc. Prof., PhD
Michigan State University

Joel Rast, Assoc. Prof., PhD
University of Oregon
Internship Coordinator

Steven Redd, Assoc. Prof., PhD
Texas A&M University

Ora John Reuter, Asst. Prof., PhD
Emory University

Paru Shah, Asst. Prof., PhD
Rice University

Natasha Borges Sugiyama, Assoc. Prof., PhD
University of Texas at Austin

Emeritus Faculty

Carol E. Baumann, Prof. Emerita, PhD

John F. Bibby, Prof. Emeritus, PhD

Eric C. Browne, Prof. Emeritus, PhD

Marcus E. Ethridge, Prof. Emeritus, PhD

David C. Garnham, Prof. Emeritus, PhD

Howard Handelman, Prof. Emeritus, PhD

Brett W. Hawkins, Prof. Emeritus, PhD

Theodore Meckstroth, Assoc. Prof. Emeritus, PhD

David Nachmias, Prof. Emeritus, PhD

Terry Nardin, Prof. Emeritus, PhD

Stephen L. Percy, Prof. Emeritus, PhD

Donald Pienkos, Prof. Emeritus, PhD
Spanish and Portuguese

The program of courses in Spanish and Portuguese is designed to encourage a liberal education and to orient students in the study of the Hispanic and Luso-Brazilian experience, as manifested in language, literature, and culture.

Spanish Undergraduate Program

The Spanish undergraduate program consists of courses in language, literature, linguistics, and culture. Courses are offered regularly during the day as well as in the evening in order to meet the scheduling needs of all students.

Students who have never taken Spanish should begin their study of the language with SPANISH 103. Those who have taken some Spanish in high school can begin at a more advanced level, depending on the results of the placement test and on how many years of high school Spanish they have had.

It is possible to receive up to 14 retroactive credits of Spanish if, after having been placed in a certain course because of previous work in the language, the student passes with a grade of at least B; in other words, s/he may receive credit for all the courses leading up to the one into which s/he placed if this is the first Spanish course taken at the university level. The courses that generate L&S credits for demonstrated equivalent preparation (retroactive credits) are 104 (4 credits), 203 (8 credits), 204 (11 credits), and 308, 318, 319, or 341 (14 credits).

The basic four-semester sequence of Spanish courses, 103, 104, 203, and 204, is designed to develop students’ proficiency in the four basic language skills: reading, writing, speaking, and listening, and to prepare students to do more advanced work in language, literature, and culture.

In SPANISH 308 and 318, students continue to develop their language skills through advanced reading and writing and in advanced speaking and listening. For students who have fluency in the language because they speak it at home, the department offers SPANISH 319, Advanced Speaking and Listening for Heritage Speakers, which substitutes for SPANISH 318. SPANISH 319 is designed to develop proficiency in speaking and listening.

More advanced 300-level courses cover introductions to the fields of linguistics, literature, and culture as well as language for special purposes (translation, business, and medicine). Advanced courses at the 400 and 500 levels offer students the opportunity to pursue more in-depth study of these fields, while continuing to perfect their command of Spanish. In addition, 500-level courses help students develop their ability to conduct independent research in a specific area of interest.

Students are encouraged to study abroad through an approved program in order to improve their language proficiency and cultural understanding. Students may be able to fulfill electives or core requirements during this
The major in Spanish requires 33 credits in Spanish courses at the 300 level and above, at least 15 of which must be taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. Students must complete the following requirements:

### Language: 6 cr.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 308</td>
<td>Advanced Writing and Reading</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>One of the following two courses:</strong></td>
<td></td>
</tr>
<tr>
<td>SPANISH 318</td>
<td>Advanced Speaking and Listening</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 319</td>
<td>Advanced Speaking and Listening for Heritage Speakers</td>
<td>3</td>
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</table>

### Linguistics: 3 cr.

<table>
<thead>
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<th>Credits</th>
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<tr>
<td>SPANISH 341</td>
<td>Introduction to Hispanic Linguistics</td>
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### Literature: 12 cr.

<table>
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<tbody>
<tr>
<td>SPANISH 350</td>
<td>Introduction to Literary Analysis</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 470</td>
<td>Survey of Hispanic Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 472</td>
<td>Survey of Spanish American Literature and Civilization</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 474</td>
<td>Survey of Spanish Literature and Civilization</td>
<td>3</td>
</tr>
</tbody>
</table>

### Research Requirement: 3 cr.

Students must complete a research experience within the context of one of the following courses at the 500 level:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 506</td>
<td>Seminar in Spanish Literature: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 507</td>
<td>Seminar in Spanish American Literature: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 508</td>
<td>Seminar in Hispanic Literature: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 541</td>
<td>Seminar in History of the Spanish Language</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 545 (445)</td>
<td>Seminar in Hispanic Linguistics: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 570 (405)</td>
<td>Seminar in Spanish Golden Age Literature: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 571 (453)</td>
<td>Seminar in Spanish American Colonial Literature: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 572 (409)</td>
<td>Seminar on Cervantes: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 575 (455)</td>
<td>Seminar in Eighteenth and Nineteenth Century Spanish American Literature and Civilization: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 577 (457)</td>
<td>Seminar in Modern Spanish American Literature and Civilization: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 578 (417)</td>
<td>Seminar in Modern Spanish Literature and Civilization: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 580 (415)</td>
<td>Seminar in Spanish Romanticism and Realism: (Subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

All 500-level courses include a research component that serves to develop students’ ability to do independent research in a specific field of interest. Both the oral presentation and the written research paper will be evaluated and rated in the areas of language acquisition/usage as well as research ability/synthesis.

### Electives: 9 cr.

Students must take a minimum of 9 additional credits at the 300 level or above. At least 3 of these credits must be taken at the 400 level or above. All 9 credits can be taken from the following list of electives as well as from the 500-level courses listed under the research requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPANISH 315</td>
<td>Spanish Immersion Experience</td>
<td>1-3</td>
</tr>
<tr>
<td>SPANISH 332</td>
<td>Business and Legal Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 338</td>
<td>Spanish for Health Professions</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 348</td>
<td>Introduction to Translation: English to Spanish</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 377</td>
<td>Introduction to Galician Culture</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 388</td>
<td>Health Issues in the Hispanic World</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 391</td>
<td>Social and Historical Issues in the Hispanic World</td>
<td>3</td>
</tr>
</tbody>
</table>
Students may count toward the major a maximum of 3 credits from the following four courses, which are taught in English:

- SPANISH 371 Introduction to Latino Literature in English
- SPANISH 373 Topics in Latino Literature in English
- PORTUGS 360 Luso-Brazilian Culture
- PORTUGS 380 Luso-Brazilian Literature in Translation

SPANISH 380 and 595 do not count toward the major.

All majors are required to take an exit examination, which is offered on campus near the end of each semester. It is recommended strongly that they take this exam during their last semester in the Spanish program.

Honors in the Major

Spanish majors who meet the following requirements may apply to the undergraduate advisor to graduate with "Honors in the Major":

1. Maintain at least a 3.500 GPA in all credits that count toward the major;
2. Maintain at least a 3.000 GPA in all courses taken at UWM; and
3. Take at least two 500-level courses.

Course of Study: Minor in Spanish

The minor in Spanish consists of 18 credits above 204 (or equivalent). Fifteen of these credits must be taken at the 300 level or above, at least 9 of these in residence at UWM. These credits may include a maximum of 3 credits selected from SPANISH 371, SPANISH 373, PORTUGS 360, or PORTUGS 380. With the exception of PORTUGS 380, no literature-in-translation courses may count toward the minor. SPANISH 210, 211, 380, and 595 do not count toward the minor.

The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, a 2.5 GPA on all minor credits attempted, including any transfer work, is required.

Course of Study: Minor in Business Spanish

The minor in Business Spanish requires the completion of 18 credits as indicated below, at least 9 of which must be at the 300 level or above taken in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work. Students in the Business School must complete the requirements in the Business Students Track. All other students complete the Non-Business Students Track. Students are responsible for completing any prerequisite courses as well.

Business Students Track

- SPANISH 203 Third-Semester Spanish
- SPANISH 204 Fourth-Semester Spanish
- SPANISH 332 Business and Legal Spanish I
- SPANISH 442 (342) Business and Legal Spanish II

Note: Students who test beyond one/both of these courses must substitute a course or courses from among SPANISH 308, 318 or 319 (but not both), 341, 348, 350, 391.
Electives – 6 cr.
Spanish courses numbered 300 and above

Non-Business Students Track

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 330</td>
<td>Organizations</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 332</td>
<td>Business and Legal Spanish I</td>
<td>3</td>
</tr>
<tr>
<td>SPANISH 442 (342)</td>
<td>Business and Legal Spanish II</td>
<td>3</td>
</tr>
</tbody>
</table>

Either of the following two courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS ADM 201</td>
<td>Introduction to Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUS ADM 360</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives – 6 cr.
Spanish courses numbered 300 and above
An appropriate internship experience (for example, with a firm doing business in Latin America or Spain) may substitute for one of the required courses in the minor. Such substitutions must be approved by the Department of Spanish and Portuguese in consultation with the School of Business Administration, which will assist students in finding an internship.

Related Programs

For the teaching major and minor, see the School of Education section of this catalog. Many courses in the Department count toward a major, minor, or certificate in other programs, including Latin American, Caribbean, and U.S. Latino Studies (LACUSL), Global Studies, and Latino Studies.

Portuguese Undergraduate Program

Ricardo Vasconcelos, Assistant Professor, Coordinator, CRT 733, ricardov@uwm.edu

UW-Milwaukee is one of only two universities (the other is UW-Madison) in the University of Wisconsin System that offer a Portuguese program on a regular basis. The Portuguese program consists of language classes as well as culture and literature classes taught in Portuguese or English, and offers a minor in Portuguese.

The program builds on the four-semester sequence of courses (103, 104, 203, 204) covering beginner and intermediate levels and designed to make students proficient in the four basic language skills – reading, writing, speaking, and listening – while exposing students to basic elements of the Lusophone cultures. Accelerated Portuguese courses (110 and 111) cover beginner and intermediate levels of Portuguese equivalent to the 103-204 sequence. PORTUGS 225 introduces students to Brazilian culture and society. The 300-level courses continue developing students’ language skills and introduce students to the study of the Lusophone cultures and literature in courses taught in Portuguese or English. These areas can be pursued in depth in 400-level courses in linguistics, literature, and culture.

The Portuguese program offers a study abroad experience. UWM students have the opportunity to participate in exchange programs in Brazil and Portugal. For more information, please visit the UWM Center for International Education website at www.uwm.edu/cie.

Students taking Portuguese at UWM are eligible for the competitive Foreign Language and Area Studies (FLAS) fellowships coordinated by the UWM Center for Latin American and Caribbean Studies (CLACS). For more information about these fellowships, please visit the CLACS website at www4.uwm.edu/clacs.

Course of Study: Minor

The undergraduate minor in Portuguese requires 18 credits of Portuguese taken in courses numbered 203 or above. Nine credits must be taken at the 300-level or above in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.
Students with no previous Portuguese language experience should enroll in PORTUGS 103. After consultation with the Portuguese coordinator, a student may enroll in a course higher than 103, if appropriate. Students placed into a course beyond the 103 level who complete their first course with a grade of at least B may receive retroactive credits, to a maximum of 14 credits, for the courses leading to the one into which they are placed. Courses that generate Credits for Demonstrated Equivalent Preparation (retroactive credits) are 104 (4 credits), 203 (8 credits), 204 (11 credits), and 310 (14 credits).

Courses

**Portuguese (PORTUGS)**

**Spanish (SPANISH)**

Faculty and Staff

Nancy Bird-Soto, Assoc. Prof., PhD  
University of Wisconsin-Madison

Santiago Daydi-Tolson, Prof. Emeritus, PhD

César Ferreira, Prof., PhD  
University of Texas at Austin

Stellia Jordán, Sr. Lect., MA  
University of Wisconsin-Milwaukee

Ismael Márquez, Prof. Emeritus, PhD

R. John McCaw, Assoc. Prof., PhD  
Princeton University

María del Pilar Melgarejo Acosta, Asst. Prof., PhD  
University of Pittsburgh

Isabel Méndez Santalla, Sr. Lect., MA  
University of Wisconsin-Milwaukee

Gabriel Rei-Doval Grela, Assoc. Prof., PhD  
Universidad de Santiago de Compostela

Julio Rodríguez-Luis, Prof. Emeritus, PhD

M. Estrella Sotomayor, Sr. Lect., MA  
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Ester Suárez-Felipe, Sr. Lect., MA  
University of Wisconsin-Milwaukee

Marguerite Suárez-Murias, Prof. Emerita, PhD

Pierre Ullman, Prof. Emeritus, PhD

Ricardo Vasconcelos, Asst. Prof., PhD  
University of California, Santa Barbara

Kathleen M. Wheatley, Assoc. Prof., PhD, Chair
Psychology

- Web Home Pages:
  - College of Letters & Science
  - Psychology
- Course of Study: Major
- Course of Study: Minor
- Courses: Psychology (PSYCH)
- Faculty

Mission

Psychology as a scientific discipline aims to describe, understand, influence and predict behavior. Toward this end, the mission of the Undergraduate Program of Studies in Psychology is to: a) provide familiarity with core areas of knowledge in psychology; b) foster an understanding of the biopsychosocial bases of behavior; c) develop understanding of and proficiency in scientific research methods and statistics; d) encourage appreciation for the applicability of psychological principles to everyday problems; and e) enhance critical thinking and communication skills relevant to many career paths.

The curriculum is designed to build familiarity with many core areas of knowledge, including conditioning and learning, personality, social behavior, psychopathology and therapy, human development, health, stress and coping, gender, race and ethnicity, sensation and perception, language, and individual differences.

Individuals who have majored or minored in psychology at the University of Wisconsin-Milwaukee have found employment in a wide variety of occupations in business, education, or the social services or have gone on to graduate or professional schools.

Course of Study: Major

The Department of Psychology offers a major in psychology leading to either the Bachelor of Arts or Bachelor of Science degree. Except for an advanced natural science credit requirement for the BS, the psychology requirements for the BS and BA degrees are the same (see below); however, students should check the general requirements for the degree (e.g., general education requirements) carefully as they differ for the BA and BS Students opting for the BS will need to complete at least 30 credits in approved advanced L&S natural science courses, at least 15 of which must be completed in Psychology.

To be accepted as a major in psychology, students must have completed PSYCH 101 and 15 university credits. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. The undergraduate major consists of 33 or 34 credits in psychology, at least 15 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses (17 cr.):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 210</td>
<td>Psychological Statistics</td>
<td>4</td>
</tr>
<tr>
<td>PSYCH 254</td>
<td>Physiological Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 325</td>
<td>Research Methods in Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>
One of the following:

PSYCH 205 Personality 3
PSYCH 214 Introduction to Conditioning and Learning 3
PSYCH 230 Social Psychology: Psychological Perspectives 3
PSYCH 260 Child Psychology 3

The major also requires five upper-level courses, which can be satisfied by either (a) one advanced laboratory course and four Systems and Foundations courses (16 cr.), OR (b) two advanced laboratory courses and three Systems and Foundations courses (17 cr.). The College requires that students complete a research experience in their major. The Department of Psychology has structured its advanced laboratory courses (PSYCH 502, 505, 514, 654, 656, 660, 677) to satisfy that requirement. In these laboratory courses, students run multiple experiments, collect and analyze data quantitatively, and write up the results in a standard journal article format, integrating the results with a critical survey of relevant professional literature. The Systems and Foundations courses are non-laboratory, upper-level courses designed to provide in-depth knowledge on specific topics in psychology. Students are welcome to take additional Systems and Foundations courses as electives.

Course of Study: Minor

To be accepted as a minor in psychology, students must have completed PSYCH 101. The undergraduate minor consists of 20 credits in psychology, at least 9 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses:

PSYCH 101 Introduction to Psychology 3
PSYCH 210 Psychological Statistics 4
PSYCH 325 Research Methods in Psychology 4

One of the following:

PSYCH 205 Personality 3
PSYCH 214 Introduction to Conditioning and Learning 3
PSYCH 230 Social Psychology: Psychological Perspectives 3
PSYCH 254 Physiological Psychology 3
PSYCH 260 Child Psychology 3

The minor also requires any two additional psychology courses at the 300 level or above, one of which must be a systems course. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

For the teaching major, see the School of Education section of this catalog.

Honors in the Major

Psychology majors who meet the following criteria are awarded Honors in the Major:

1. A 3.0 cumulative GPA on all credits attempted;
2. A 3.5 GPA on all credits that count toward the major; and
3. A 3.5 GPA on all advanced credits that count toward the major.

Cross-listed Courses
The following courses offered by other academic units may be used to fulfill requirements of the undergraduate major or minor in psychology:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 455</td>
<td>Neurobiology</td>
<td>3-4</td>
</tr>
<tr>
<td>BUS ADM 442</td>
<td>Industrial Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Faculty

Vincent J. Adesso, Prof. Emeritus, PhD

Alan Baron, Prof. Emeritus, PhD

Shawn Cahill, Assoc. Prof., PhD
State University of New York at Binghamton

W. Hobart Davies, Prof., PhD
Michigan State University

Marshall L. Dermer, Assoc. Prof. Emeritus, PhD

Kamran Diba, Asst. Prof., PhD
Brown University

Ira Driscoll, Asst. Prof., PhD
University of Lethbridge, Canada

Raymond Fleming, Prof., PhD
Uniformed Services University of the Health Sciences

Karyn Frick, Prof., PhD
The Johns Hopkins University

Adam Greenberg, Asst. Prof., PhD
Johns Hopkins University

Anthony J. Greene, Assoc. Prof., PhD
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Deborah Hannula, Asst. Prof., PhD
University of Illinois at Urbana-Champaign

John C. Hay, Prof. Emeritus, PhD

Fred J. Helmstetter, Prof., PhD
Dartmouth College

Michael T. Hynan, Prof. Emeritus, PhD

Arnold E. Kaufman, Prof. Emeritus, PhD
Sociology examines how the web of relationships in which we live shapes what we do, think, and feel. The sociologist studies how patterns in our personalities, preferences, choices, and life chances emerge in interactions and in our participation in groups, social institutions, and social structures of opportunity and constraint. Since all human behavior is social, the subject matter of sociology ranges widely, from the family to the anonymous crowd, from organized religion to organized crime, from conflicts and inequalities to shared beliefs of our culture. As social scientists, we employ a variety of careful methods of research to generate trustworthy conclusions.

**Course of Study: Major**

Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work.

The major in sociology requires a minimum of 30 credits including the following:

- SOCIOL 261 Introduction to Statistical Thinking in Sociology
- SOCIOL 361 Research Methods in Sociology (satisfies L&S research requirement)
- SOCIOL 375 History of Sociological Theory
- SOCIOL 376 Modern Sociological Theory

At least 15 credits must be in upper-division (300-level and above) sociology courses taken in residence at UWM. With the approval of the undergraduate advisor, students who have completed an elementary statistics course in another discipline may be exempted from the SOCIOL 261 requirement.

Majors who began their university undergraduate studies between 1998-99 and summer, 2006 must complete a capstone experience in sociology. This requirement may be met by completing one of the following two courses:

- SOCIOL 489 Internship in Sociology, Upper Division
- SOCIOL 493 Capstone Seminar in Sociology

Because capstone courses no longer are offered regularly, students who took SOCIOL 361, "Research Methods," during fall 2005 or later should meet with their L&S advisor to elect the current graduation requirements, which do not require a capstone. Others should confer with their sociology advisor about meeting the capstone requirement.
Students in the Schools of Education and Social Welfare should consult their programs regarding social science requirements.

Sociology courses are cross-listed with several certificate programs and interdepartmental majors.

**Honors in the Major**

Sociology majors who have maintained at least a 3.0 GPA overall and a 3.5 GPA in courses taken for the major are awarded the distinction “Honors in the Major” when they graduate. An "Honors in the Major" notation will appear on the student’s transcript. In addition, majors who maintained at least a 3.0 GPA overall and a 3.3 GPA in courses taken for the major are invited to join Alpha Kappa Delta, the International Sociology Honor Society. Sociology faculty members annually select academically talented majors for both the "Distinguished Scholar Award" as well as the “Joan W. Moore Service Scholar Award.” Both awards are presented to an accomplished junior or senior in the major each spring at the department’s award ceremony.

**Course of Study: Minor**

Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.5 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including any transfer work.

The minor in sociology requires 18 credits distributed as follows:

- **SOCIOL 261**  Introduction to Statistical Thinking in Sociology
- **SOCIOL 361**  Research Methods in Sociology
- **SOCIOL 375**  History of Sociological Theory
- Any two additional sociology courses at the 300 level or above, totaling at least 6 cr.
- Elective 3 cr. SOCIOL any level

With the approval of the undergraduate advisor, minors may substitute an elementary statistics course from another discipline (such as MTHSTAT 215 or PSYCH 210) for the SOCIOL 261 requirement. Those who have completed a methods course in a related discipline may be exempted from the SOCIOL 361 requirement, with the approval of the undergraduate advisor. Students who receive exemption from SOCIOL 361 must take an additional upper-division SOCIOL course for the minor.

**Courses (SOCIOL)**

**Faculty**

A. Aneesh, Assoc. Prof., PhD  
Rutgers University

Lakshmi K. Bharadwaj, Assoc. Prof. Emeritus, PhD

Marcus Britton, Asst. Prof., PhD  
Northwestern University

Celeste Campos-Castillo, Asst. Prof., PhD
University of Iowa

Noelle Chesley, Assoc. Prof., PhD
Cornell University

Cary Gabriel Costello, Assoc. Prof., PhD
University of California, Berkeley

Ronald S. Edari, Assoc. Prof. Emeritus, PhD

Chava Frankfort-Nachmias, Assoc. Prof. Emerita, PhD

Gordon Cauchat, Asst. Prof., PhD
University of Connecticut

Donald E. Green, Assoc. Prof., PhD, Chair
University of Minnesota

Ann L. Greer, Prof. Emerita, PhD

Jennifer R. Jordan, Assoc. Prof., PhD
University of California, San Diego

Nancy Mathiowetz, Prof., PhD
University of Michigan

William W. Mayrl, Assoc. Prof. Emeritus, PhD

Oriol Mirosa, Asst. Prof., PhD
University of Wisconsin-Madison

Rhonda Montgomery, Prof., PhD
University of Minnesota

Joan W. Moore, Prof. Emerita, PhD

Donald L. Noel, Prof. Emeritus, PhD

Stacey J. Oliker, Assoc. Prof., PhD
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Kent Redding, Assoc. Prof., PhD
University of North Carolina at Chapel Hill

Aki Roberts, Asst. Prof., PhD
University of New Mexico

John M. Roberts, Jr., Prof., PhD
Cornell University

Heeju Shin, Asst. Prof., PhD
University of Texas at Austin

William Vélez, Prof., PhD
Yale University
Urban Studies

- Web Home Pages:
  - [College of Letters & Science](#)
  - [Urban Studies](#)
- [Urban Studies Major](#)
- [Urban Studies Certificate](#)
- [Courses: Urban Studies (URB STD)](#)
- [Faculty](#)

Jasmine A. Alinder, *Associate Professor of History, Program Director*

James Harris, *Associate Director*

*Bolton Hall 702*

*Phone: (414) 229-4751*

*Fax: (414) 229-5942*

The urban studies program offers both an undergraduate major through the Committee Interdisciplinary Major and an undergraduate certificate in urban studies. For information on the Urban Studies Certificate, see the L&S Certificate Programs section of this catalog.

**Urban Studies Major**

The urban studies major provides the opportunity for students to explore scholarship on cities, suburban communities, and metropolitan regions with an interdisciplinary lens. Coursework in the major is drawn from the affiliated areas of geography, history, political science (and courses that formerly were part of political science that now are offered in public administration), sociology, and urban planning, in addition to urban studies. Although interdisciplinary, the field of urban studies encompasses a distinct body of knowledge, one that combines both theoretical and applied approaches to understanding urban processes. The major is designed to be flexible in order to allow the student to develop a strong foundation from the core courses and then build a set of elective courses that address particular urban histories and problems from different disciplines, depending on student interest and future goals.

Four required urban studies courses form the foundation of the major: Urb Std 150 Multicultural America, a core course in which students conduct service learning by working in an urban organization or agency; one of two urban studies survey courses; a theory course on urbanism and urbanization; and a capstone course (Urb Std 600) taken in the senior year. Students also take a statistics course, which is a standard requirement for social science majors. In addition, students complete five elective courses selected from urban studies and approved courses in the affiliated areas. Student internships (Urb Std 289 or 489) are encouraged strongly. Students also are encouraged to participate in and present at various urban studies-sponsored events, such as the annual Urban Studies Student Forum conference and the Henry W. Maier State of Milwaukee Summit, and to contribute to the *epolis* ejournal (currently, each issue includes one paper from an undergraduate).

Urban Studies prepares students for careers in nonprofit organizations, government, business, education, law, and social work. Students who major in Urban Studies are equipped for graduate study in many fields, including the social sciences and the professional fields of urban planning and law.

To declare a major in Urban Studies, students make an appointment with the Urban Studies Associate Director in order to complete the “declaration of major” form.
Course of Study
The Urban Studies major requires a minimum of 30-31 credits, including at least 18 credits in the College of Letters & Science with coursework from at least two L&S departments. No more than 9 credits in a single curricular area outside of urban studies may count toward the major. Sociol 377, which is jointly offered in the Urb Std curricular area, will count as an Urb Std course for this purpose. Students must complete at least 15 credits in upper-division (numbered 300 and above) L&S courses for the major in residence at UWM. In addition, students must attain a minimum GPA of 2.5 in all UWM credits attempted for the major. The College also requires that students attain a 2.5 GPA in all major credits attempted, including any transfer work. The following are required:

Core Course: 3 cr.

Urb Std 150 Multicultural America, which includes conducting service learning at an urban organization 3

Survey Course: 3 cr. (one of the following):

Urb Std 250 Exploring the Urban Environment 3
Urb Std 360 Perspectives on the Urban Scene (any topic) 3

Statistics: 3-4 cr. (one of the following):

Geog 247 Quantitative Analysis in Geography 3
Hist 595 The Quantitative Analysis of Historical Data 3
Pol Sci 390 Political Data Analysis 4
Sociol 261 Introduction to Statistical Thinking in Sociology 3

Theory: 3 cr.

Sociol/Urb Std 377 Urbanism and Urbanization 3

Capstone: 3 cr.

Urb Std 600 Capstone Seminar in Urban Studies (satisfies L&S research requirement) 3
Or equivalent course approved by the program director.

Electives: 15 cr. Selected from the following courses or other appropriate courses approved by the program director. (No more than nine credits from the same department outside of urban studies may apply to the 30- or 31-credit minimum in the major.)

Urb Std All courses
UrbPlan All courses
Africol 300 Urban Violence
Africol 319 History of Blacks in the American City
Crm Jst 291 Current Issues in Criminal Justice
Crm Jst 295 Crime and Criminal Justice Policy
Crm Jst 370 Criminal Justice Administration
Geog 114 Geography of Race
Geog 140 À Our Urban Environment: Introduction to Urban Geography
Geog 215 Introduction to Geographic Information Sciences
Geog 440 City Systems and Metropolitan Areas
Geog 441 Geography of Cities and Metropolitan Areas
Geog 443 Cities of the World: Comparative Urban Geography
Geog 464 Environmental Problems
Geog 520 Physical Geography of the City
Geog 540 Globalization and the City
Geog 564 Urban Environmental Change and Social Justice
Geog 625 Intermediate Geographic Information Science
Hist 192 Freshman Seminar: “Living in Ancient Rome” and “The Burbs: History of American Suburbs” subtitles
Hist 404 Topics in American History: “The Wire” subtitle
Hist 436 Immigrant America Since 1880
Hist 440 History of the American Working Classes
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hist 446</td>
<td>African Americans Since the Civil War</td>
</tr>
<tr>
<td>Hist 450</td>
<td>Growth of Metropolitan Milwaukee</td>
</tr>
<tr>
<td>Hist 460</td>
<td>History of Poverty</td>
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<td>Hist 463</td>
<td>History of the American City</td>
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<tr>
<td>Pol Sci 213</td>
<td>Urban Government and Politics</td>
</tr>
<tr>
<td>Pol Sci 243</td>
<td>Public Administration</td>
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<tr>
<td>Pol Sci 387</td>
<td>Seminar in American Politics: “Municipal Finance” subtitle</td>
</tr>
<tr>
<td>Pol Sci 413</td>
<td>Governing Metropolitan Areas</td>
</tr>
<tr>
<td>Pol Sci 444</td>
<td>Politics and Bureaucracy</td>
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<td>Pol Sci 450</td>
<td>Urban Political Problems</td>
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<tr>
<td>Pol Sci 452</td>
<td>Administrative Law</td>
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<tr>
<td>Pub Adm 243</td>
<td>Public Administration</td>
</tr>
<tr>
<td>Pub Adm 331</td>
<td>Comparative Public Administration</td>
</tr>
<tr>
<td>Pub Adm 452</td>
<td>Administrative Law</td>
</tr>
<tr>
<td>Pub Adm 462</td>
<td>Public Policy Planning</td>
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<td>Sociol 193</td>
<td>Freshman Seminar: “College in the City” subtitle</td>
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<tr>
<td>Sociol 224</td>
<td>American Minority Groups</td>
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<tr>
<td>Sociol 235</td>
<td>Social Change in the Global Economy</td>
</tr>
<tr>
<td>Sociol 307</td>
<td>Industrial Sociology</td>
</tr>
<tr>
<td>Sociol 323</td>
<td>Perspectives on Latino Communities</td>
</tr>
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<td>Sociol 324</td>
<td>Comparative Race Relations</td>
</tr>
<tr>
<td>Sociol 325</td>
<td>Social Change</td>
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<tr>
<td>Sociol 330</td>
<td>Economy and Society</td>
</tr>
<tr>
<td>Sociol 423</td>
<td>Immigration and Incorporation: (all topics)</td>
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<tr>
<td>Sociol 450</td>
<td>Environmental Sociology</td>
</tr>
<tr>
<td>Sociol 472</td>
<td>Population and Society</td>
</tr>
<tr>
<td>Sociol 610</td>
<td>Reproduction of Minority Communities</td>
</tr>
</tbody>
</table>

**Courses (URB STD)**

**Faculty**

**Jasmine Alinder, Assoc. Prof., PhD, History, Chair**

**Margo J. Anderson, Prof., PhD, History**
Rutgers University

**Fredrik O. Andersson, PhD, Public and Nonprofit Administration**
University of Missouri-Kansas City

**Anne Bonds, Asst. Prof., PhD, Geography**
University of Washington

**Marcus Britton, Asst. Prof., PhD, Sociology**
Northwestern University

**Tina L. Freiburger, PhD, Criminology**
Indiana University of Pennsylvania

**Rina Ghose, Assoc. Prof., PhD, Geography**
University of Wisconsin-Milwaukee

**Donald E. Green, Assoc. Prof., PhD, Sociology**
University of Minnesota
James Harris, Sr. Lect., PhD, Urban Studies
University of Wisconsin-Milwaukee

Ryan Holifield, Asst. Prof., PhD, Geography
University of Minnesota

Douglas M. Ihrke, Prof., PhD, Public and Nonprofit Administration
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Jennifer R. Jordan, Assoc. Prof., PhD, Sociology
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University of Pennsylvania

Jenna Lloyd, PhD, Joseph J. Zilber School of Public Health
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Nancy Mathiowetz, Prof., PhD, Sociology
University of Michigan

Genevieve McBride, Assoc. Prof., PhD., History
University of Wisconsin-Madison

Linda McCarthy, Assoc. Prof., PhD, Geography
University of Minnesota

Daniel McClure, PhD, Africology
University of Massachusetts-Amherst

Rhonda Montgomery, Prof., PhD, Sociology
University of Minnesota

Stacey J. Oliker, Assoc. Prof., PhD, Sociology
University of California, Berkeley

Joel Rast, Assoc. Prof., PhD, Political Science
University of Oregon

Lex Renda, Assoc. Prof., PhD, History
University of Virginia

Aki Roberts, PhD, Sociology
University of New Mexico

Joseph A. Rodríguez, Assoc. Prof., PhD, History
University of California, Berkeley

Amanda Seligman, Assoc. Prof., PhD, History
Northwestern University

Paru R. Shah, Asst. Prof., PhD, Political Science
Rice University

Heeju Shin, Asst. Prof., PhD, Sociology
University of Texas at Austin
Special Program in the Study of Aging

Admission to this certificate program is suspended pending further curriculum development.

Anne Basting, Advisor, Associate Professor, Social Welfare; Director, Center on Age and Community
END 1163, (414) 229-2732, basting@uwm.edu

The Special Program in the Study of Aging is an interdisciplinary undergraduate certificate program that is offered through the College of Letters & Science and is available to all students at UWM. Designed to supplement a broad range of student interests and academic and preprofessional majors, the program consists of 18 credits including:

1. At least 9 credits (three courses) from core curriculum courses that are classified on the basis of content into one of three areas: the humanistic, behavioral, and biological dimensions of aging. Students must select courses from at least two of the three areas. (See the program coordinator for a current list.)

2. Three credits of independent research in aging. Research projects are approved by the coordinator and, with the help of a faculty advisor, are tailored to the particular interests of the student.

3. Up to 6 credits of aging-related courses may be counted toward the 18 required credits. Normally, students select these courses after consulting with their faculty advisor in the program. A maximum of 3 credits of approved independent study over and above the independent research requirement may be counted as part of the aging-related courses.

The student must maintain a 2.5 GPA for the 18 credits that make up the certificate.

For additional information, contact the program advisor.
American Indian Studies

Cary Miller, Associate Professor of History, Coordinator, HLT 365, (414) 229-6251, carym@uwm.edu

The Certificate in American Indian Studies is an interdisciplinary academic program that provides for students a thorough understanding of the Native American experience in the United States. America’s origins are intertwined with Native America, making American Indian studies essential to understanding American society and culture today. The certificate in American Indian studies focuses on the indigenous peoples the Europeans encountered when they came to the U.S., how the arrival of Europeans impacted the Native Americans, and how the Euro-Americans and Native Americans transformed each other. Coursework for the certificate is available in many traditional academic disciplines, including anthropology, education, English, history, and sociology. Given that Wisconsin is home to 11 federally recognized tribal communities, a certificate in American Indian Studies will help prepare students of any profession to work with American Indian communities across the state.

The American Indian Studies Certificate is intended to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM and to students who previously have received a bachelor’s degree from UWM or any other accredited college or university.

Program Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.50, at least 18 credits in approved American Indian Studies courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, nine must be taken at the 300 level or above. Twelve of the 18 required credits must be in the College of Letters & Science, with at least 6 of these at the 300 level or above. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis. The following are required:

Core Course

AIS 101 Introduction to American Indian Studies 3

Electives

Fifteen additional credits selected from the list of approved courses. Students may petition the AIS Coordinator for approval of appropriate courses not on the approved list.

Approved Courses

AIS/ETHNIC 151 First-Semester Ojibwe 3
AIS/ETHNIC 152 Second-Semester Ojibwe 3
AIS 203 Western Great Lakes American Indian Community Life of the Past 3
AIS/ANTHRO 213 American Indian Peoples of Wisconsin 3
AIS/ANTHRO 213 The Aztec Empire 3
Independent study courses focusing on the American Indian experience may be accepted with the approval of the Certificate Program Coordinator. If the core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the Certificate Program Coordinator to accept another course in its stead. Other courses not on this list but relevant to the study of American Indians may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

Students interested in earning a major in American Indian Studies may do so through the College's Committee Interdisciplinary Major program. Contact the AIS coordinator for further information.

Courses
American Indian Studies (AIS)
The College of Letters & Science cooperates with the College of Engineering & Applied Science to offer a Bachelor of Science in Applied Mathematics and Computer Science (AMCS). The primary objective of this degree is to educate students who excel at problem solving in the technical fields that require skills in both analytical math and computer science. The flexibility built into the AMCS degree allows students to acquire these skills in the context of a program designed around their own interests. The program is administered by an advisory committee composed of faculty members from both the College of Letters & Science and the College of Engineering & Applied Science.

For additional information, see the Applied Mathematics and Computer Science Degree Program description in the Inter-School/College Programs section of this catalog.
The Certificate in Asian Studies is open to all students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject area. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

The certificate can be completed in two ways, one that includes language study and another that does not:

- General Asian Studies Certificate (18 credits)
- Asian Studies Certificate with language focus (30 credits)

Language study, however, greatly deepens the student’s knowledge and capacities in Asian studies, and so the distinction is meaningful. Both forms of this certificate are designed for students majoring in any field in the University who wish to complement their majors with an additional concentration in Asian studies. The Asian Studies Certificate with a language focus is not open to students majoring or minoring in Chinese or Japanese at UWM.

Students enrolling in the Asian Studies Certificate Program are required to earn a minimum of 18 credits, at least 9 of which must be completed at UWM. Of the 18 credits, at least 12 credits must be taken in courses in the College of Letters & Science, and 6 of those must be at the upper level (numbered 300 and above). Of the required credits, at least 9 must be at the 300 level or above, of which 6 credits must be non-language courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.7 or above in all courses counting toward the certificate. A maximum of 6 credits in a combination of approved independent study and/or relevant Asian-focused courses from other schools and colleges may count toward the requirements of the program. All students are required to complete an exit survey before the certificate is awarded.

To earn either the general Asian Studies Certificate (18 credits) or the Asian Studies Certificate with a language focus (30 credits), the following are required:

**One of the following gateway courses (3 cr.):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Code</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTHIST 105</td>
<td>Asian Art and Architecture (HU)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 193</td>
<td>First-Year Seminar: “Economics of Asia” (SS) and other appropriate subtitles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 213</td>
<td>Geography of Asia (SS)</td>
<td></td>
<td></td>
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<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600 (HU)</td>
<td></td>
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<tr>
<td>HIST 176</td>
<td>East Asian Civilization Since 1600 (HU)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHILOS 204</td>
<td>Introduction to Asian Religions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Elective credits from the approved list (15 cr.):**

- A minimum of 6 credits must be upper-level (numbered 300 or above) non-language courses;
- An additional 9 credits of approved electives, at least 3 of which must be at the 300 level or above.
To earn the certificate with a language focus, in addition to satisfying all of the above requirements, students must complete a minimum of 12 credits in a single Asian language. The Asian Studies certificate with a language focus is open to students in any major or minor, with the exception of students majoring or minoring in Chinese or Japanese at UWM.

Interested students should contact the program advisor as soon as they decide to pursue the Asian Studies certificate. The advisor’s function is to help the student design a program of study from among the available courses and to guide the student in completing that program.

The following courses have been approved for the Certificate in Asian Studies:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 326</td>
<td>Peoples and Cultures of South Asia</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 105</td>
<td>Asian Art and Architecture (If not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 308</td>
<td>Film Styles: “Asian Cinema and Spiritual Practices”; “Meaning in Chinese Art”; and other approved subtitles</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 382</td>
<td>Chinese Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 383</td>
<td>Japanese Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 480</td>
<td>Chinese Painting</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 481</td>
<td>Topics in Chinese Art: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 101</td>
<td>First Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 102</td>
<td>Second Semester Chinese</td>
<td>5</td>
</tr>
<tr>
<td>CHINESE 150</td>
<td>Contemporary Chinese Society and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 200</td>
<td>Chinese Calligraphy</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 201</td>
<td>Third Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 202</td>
<td>Fourth Semester Chinese</td>
<td>5</td>
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<tr>
<td>CHINESE 301</td>
<td>Fifth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 302</td>
<td>Sixth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 320</td>
<td>Contemporary Chinese Societies Through Film</td>
<td>3</td>
</tr>
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<td>CHINESE 401</td>
<td>Seventh Semester Chinese</td>
<td>3</td>
</tr>
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<td>CHINESE 402</td>
<td>Eighth Semester Chinese</td>
<td>3</td>
</tr>
<tr>
<td>CHINESE 441</td>
<td>Business Chinese</td>
<td>3</td>
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<tr>
<td>COMPLIT 230</td>
<td>Literature and Society: “Land Society: Chinese Literature Before the 20th Century” and other appropriate subtitles</td>
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<tr>
<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (with appropriate subtitle)</td>
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<tr>
<td>COMPLIT 362</td>
<td>Transnational Asian Cinemas: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>COMPLIT 363</td>
<td>Chinese Literature in the Global Context: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>ECON 193</td>
<td>First-Year Seminar: “Economics of Asia” subtitle and other appropriate subtitles (if not selected above)</td>
<td>3</td>
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<tr>
<td>ECON 351</td>
<td>Introduction to International Economic Relations</td>
<td>3</td>
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<tr>
<td>ECON 353</td>
<td>Economic Development</td>
<td>3</td>
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<tr>
<td>ENGLISH 316</td>
<td>World Cinema: “Hong Kong Cinema” subtitle and other appropriate subtitles</td>
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<tr>
<td>ENGLISH 507</td>
<td>Studies in Literature 1900 to the Present: “Representations of Self in Japanese and Western Literature” subtitle and other appropriate subtitles</td>
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<td>FLL 109</td>
<td>First Semester Lao Literacy</td>
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<td>FLL 110</td>
<td>Second Semester Lao Literacy</td>
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<tr>
<td>FLL 299</td>
<td>Ad Hoc: “Language and Culture of Laos” subtitle and other appropriate subtitles</td>
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<tr>
<td>GEOG 213</td>
<td>Geography of Asia (if not selected above)</td>
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<td>GEOG 443</td>
<td>Cities of the World: Comparative Urban Geography (with appropriate Asian emphasis)</td>
<td>3</td>
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<td>GEOG 470</td>
<td>Geography of South Asia</td>
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<tr>
<td>Course Code</td>
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<tr>
<td>HIST 175</td>
<td>East Asian Civilization to 1600 (if not selected above)</td>
<td>3</td>
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<tr>
<td>HIST 176</td>
<td>East Asian Civilization Since 1600 (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 286</td>
<td>The Korean War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 287</td>
<td>The Vietnam War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Topics in the History of Religious Thought: “Introduction to Buddhist Thought” subtitle and other appropriate subtitles</td>
<td>3</td>
</tr>
<tr>
<td>HIST 376</td>
<td>History of Ancient China: Earliest Times to 220 A.D.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 377</td>
<td>Modern China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 378</td>
<td>Revolution in China</td>
<td>3</td>
</tr>
<tr>
<td>HIST 382</td>
<td>Southeast Asia: The Age of Imperialism and Revolution Since 1800</td>
<td>3</td>
</tr>
<tr>
<td>HIST 394</td>
<td>History of Japan to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 395</td>
<td>History of Japan Since 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 398</td>
<td>Honors Seminar: “Political Crisis in Ancient China” subtitle and other appropriate subtitles</td>
<td>3</td>
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<tr>
<td>HONORS 200</td>
<td>Honors Seminar: “The Shaping of the Modern Mind” subtitle and other appropriate subtitles</td>
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<tr>
<td>INTL ST 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
<td>3</td>
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<tr>
<td>JAPAN 101</td>
<td>First Semester Japanese</td>
<td>5</td>
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<tr>
<td>JAPAN 102</td>
<td>Second Semester Japanese</td>
<td>5</td>
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<tr>
<td>JAPAN 110</td>
<td>Japanese Popular Culture</td>
<td>3</td>
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<tr>
<td>JAPAN 200</td>
<td>Japanese Culture and Its Effect on Language</td>
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<td>JAPAN 201</td>
<td>Third Semester Japanese</td>
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<td>JAPAN 202</td>
<td>Fourth Semester Japanese</td>
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<tr>
<td>JAPAN 220</td>
<td>Introduction to Japanese Food Studies</td>
<td>3</td>
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<td>JAPAN 301</td>
<td>Fifth Semester Japanese</td>
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<td>JAPAN 302</td>
<td>Sixth Semester Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 321</td>
<td>Analyzing Hollywood-Japan Film Remakes</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 330</td>
<td>Japanese Language and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 331</td>
<td>Reading Japanese Short Stories</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 361</td>
<td>Translating Japanese Media</td>
<td>3</td>
</tr>
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<td>JAPAN 401</td>
<td>Seventh Semester Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 402</td>
<td>Eighth Semester Japanese</td>
<td>3</td>
</tr>
<tr>
<td>JAPAN 403 (416)</td>
<td>Introduction to Translation: Japanese to English</td>
<td>3</td>
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<tr>
<td>JAPAN 441</td>
<td>Business Japanese I</td>
<td>3</td>
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<td>KOREAN 101</td>
<td>First Semester Korean</td>
<td>5</td>
</tr>
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<td>KOREAN 102</td>
<td>Second Semester Korean</td>
<td>5</td>
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<td>KOREAN 201</td>
<td>Third Semester Korean</td>
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<tr>
<td>KOREAN 202</td>
<td>Fourth Semester Korean</td>
<td>5</td>
</tr>
<tr>
<td>PHIL 204</td>
<td>Introduction to Asian Religions (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 475</td>
<td>Special Topics in Indian Religious Thought: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 341</td>
<td>Politics and Markets in Pacific-Rim Countries: (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 343(244)</td>
<td>Asian International Relations</td>
<td>3</td>
</tr>
<tr>
<td>SOCIOL 325</td>
<td>Social Change</td>
<td>3</td>
</tr>
</tbody>
</table>

**Exit Survey**

All students are required to complete an exit survey upon completion of their required coursework. The survey allows certificate students to reflect on their experiences while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

**Please note:** The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.
Course of Study: Major

This interdisciplinary major is directed toward students interested in natural resources conservation, environmental assessment, and interpretation of environmental and conservation issues. An overall objective is to provide a multidisciplinary background in these areas and sufficient basic training in biological, chemical, earth, and social sciences to foster an understanding of environmental problems.

As a general guide within the major, students may elect to concentrate their studies in one of four areas:

1. Land Resources
2. Water Resources
3. Environmental Analysis
4. Biological Resources

In addition to these focus areas, students interested in environmental education should plan, in consultation with the coordinator, a course of study that includes the course sequence in science interpretation, CES 550/551. It is possible to elect either the BA or the BS degree option, depending partly upon the concentration. (See College of Letters & Science section for the general degree requirements.)

Because of the breadth and flexibility of this major, students should consult with the director or coordinator early, preferably during the sophomore year, to plan a course of study. It is particularly important to begin the introductory course sequences early since they are prerequisites for advanced courses and for declaring the major. Students wishing to declare the major can obtain the necessary information and materials from the coordinator or a College of Letters & Science advisor.

Course of Study. A minimum of 54 credits is required and at least 25 credits must be in courses at the 300 level and above.* All students in the major must take the required courses (Parts I, II, III, and IV, totaling 33-40 credits). The remaining credits (14-21) must be chosen from among the approved elective courses for the major (See Parts V and VI.)

* Advanced (300-level and above) courses outside L&S may be used to satisfy this major requirement. However, students should be aware that College of Letters & Science degree requirements call for 36 advanced credits in L&S courses.

Students must attain a 2.5 GPA on all credits attempted for the major at UWM. In addition, the College requires that students attain a 2.5 GPA on all major credits attempted, including any transfer work.

In order to be accepted into the CES major, students should be in their sophomore year and have completed CES 210, BIO SCI 150, and either GEO SCI 100 or GEOG 120.

In addition to coursework in the major, other skills and background are recommended for this field. Good communication skills are essential; students should take courses in public speaking and technical writing. Computer literacy and knowledge of statistics also are highly desirable. Additionally, introductory courses in economics, ethics, political science, and sociology are recommended. The coordinator or a Letters & Science advisor can provide a current
FieldWork. It is recommended that students obtain at least one semester of practical work or internship experience, either as an employee or as a volunteer, with state or federal resource management agencies, consulting firms, conservation or environmental organizations, or with nature centers or local parks. Internships for credit must be arranged the semester prior to participation.

Note: Students intending to continue on to graduate school should take math through at least one semester of calculus and at least one semester of organic chemistry. They also should discuss their specific field of interest with the director or coordinator for assistance in selecting appropriate elective courses.

I. REQUIRED INTRODUCTORY CORE COURSES (19 CREDITS)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>CES 210</td>
<td>Introduction to Conservation and Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 120</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
</tbody>
</table>

II. MID-LEVEL DISTRIBUTIONAL COURSES (6-8 Credits) - Select 2 of the following 3 courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 102</td>
<td>Principles of Historical Geology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
</tbody>
</table>

III. UPPER-LEVEL CORE COURSES (7 Credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>4</td>
</tr>
<tr>
<td>CES 471</td>
<td>Principles of Natural Resources Management</td>
<td>3</td>
</tr>
</tbody>
</table>

IV. RESEARCH REQUIREMENT (1-6 Credits)

Students must complete one of the following courses, all of which require students to conduct independent research.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 611</td>
<td>Seminar on Recent Advances in Limnology and Oceanography: (Subtitle)</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 670</td>
<td>Senior Seminar in Biological Sciences</td>
<td>1</td>
</tr>
<tr>
<td>BIO SCI 699</td>
<td>Independent Study</td>
<td>1-3</td>
</tr>
<tr>
<td>CHEM 691</td>
<td>Senior Research</td>
<td>1-4</td>
</tr>
<tr>
<td>CHEM 692</td>
<td>Senior Thesis</td>
<td>1-6</td>
</tr>
<tr>
<td>CHEM 697</td>
<td>Senior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>CES 490</td>
<td>Senior Seminar: Conservation and Environmental Science</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 600</td>
<td>Perspectives on Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 414</td>
<td>Structural Geology</td>
<td>3</td>
</tr>
<tr>
<td>HONORS 686</td>
<td>Honors Research (Biological Sciences topic)</td>
<td>2-3</td>
</tr>
<tr>
<td>HONORS 687</td>
<td>Senior Honors Project (Biological Sciences topic)</td>
<td>1-6</td>
</tr>
<tr>
<td>HONORS 689</td>
<td>Senior Honors Thesis (Biological Sciences topic)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: Sections I-IV = 33-40

V. DESCRIPTIONS OF RECOMMENDED COURSES FOR CONCENTRATION AREAS

An additional 14-21 credits are required for completion of the major. Although these credits may be selected from among any listed under the approved electives in Section VI, it is highly recommended that students select courses in order to build expertise in a focus area.

The following are general descriptions of four focus areas in the major. These are meant only to be a general guide, and specific course selections should be made in consultation with the director or coordinator when planning the major.
A. Land Resources

The land resources focus area deals with land conservation and management. Students learn to use spatial database and computer geographic information techniques and how to apply these skills to understand human and natural impacts on the landscape. Graduates often find jobs working with governmental agencies or private companies as cartographers, GIS professionals, resource consultants, or conservation planners and managers.

Some focus courses available include:

- conservation of natural resources
- cartography
- geographic information systems
- physical climatology
- land form geography
- soil science
- environmental economics
- environmental geology

B. Water Resources

Students choosing the water resources focus area study physical and chemical aspects of water as well as the geological and biological processes that influence its distribution, supply, quality, and ecological functions. Numerous governmental agencies and private consulting firms hire graduates to work in the fields of water quality assessment, groundwater monitoring, and lake or stream management.

Some focus courses available include:

- limnology
- organic chemistry
- physical hydrogeology
- chemical hydrogeology
- microbiology
- soil science
- geomorphology
- environmental geology

C. Environmental Analysis

Students who choose the environmental analysis focus area learn how to observe, quantify, measure, and report environmental problems. A strong foundation in the fundamentals of physical and organic chemistry will help students apply analytical skills and find solutions. As environmental chemists or consultants, students often find work in the areas of hazardous waste, air and water quality management, and environmental remediation.

Some focus courses available include:

- organic chemistry
- quantitative analysis
- biochemistry
- microbiology
- chemical hydrogeology
- aquatic microbiology
- physical chemistry
- environmental geology

D. Biological Resources
The biological resources focus area addresses the ecological and organism processes that produce and maintain biodiversity. Courses examine the genetic, physiological, population, and community-level processes that can influence the distribution and abundance of species. Biological resources can prepare students for careers including environmental education, natural resource management, wildlife biology, forestry, and fisheries.

- animal behavior
- behavioral ecology and sociobiology
- comparative ecophysiology
- biology of algae
- plant systematics and evolution
- Invertebrate zoology
- fish ecology and evolution
- evolution and ecology of birds
- plant ecology
- conservation biology
- marine biology
- genetics

### VI. LIST OF APPROVED ELECTIVE COURSES IN THE MAJOR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 103</td>
<td>Digging Up the Past: Approaches to Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 355</td>
<td>Globalization, Culture, and Environment</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 441</td>
<td>Nature, Knowledge, and Technoscience in Anthropological Perspective</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 448</td>
<td>Cultural and Human Ecology</td>
<td>3</td>
</tr>
<tr>
<td>ARCH 350</td>
<td>Green Architecture</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 289</td>
<td>Internship in Biological Sciences, Lower Division</td>
<td>1-6</td>
</tr>
<tr>
<td>BIO SCI 315</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 325</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 351 (301)</td>
<td>Invertebrate Function and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 358 (305)</td>
<td>Birds of Wisconsin</td>
<td>2</td>
</tr>
<tr>
<td>BIO SCI 359 (349)</td>
<td>Comparative Ecophysiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 361 (333)</td>
<td>Diversity of Fungi, Algae, and Plants</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 370</td>
<td>Animal Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 383 (303)</td>
<td>General Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 406</td>
<td>Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 407</td>
<td>Plant Systematics and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 430 (530)</td>
<td>Animal Behavior - Ethology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 435</td>
<td>Identification and Systematics of Flowering Plants</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 458</td>
<td>Community Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 465</td>
<td>Biometry</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 475</td>
<td>Tropical Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 480</td>
<td>Ecological Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 489</td>
<td>Internship in Biological Sciences, Upper Division</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 500</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 505</td>
<td>Conservation Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 511</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 512</td>
<td>Limnology I</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 513</td>
<td>Limnology I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO SCI 523</td>
<td>Evolution and Ecology of Birds</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 525</td>
<td>Ecology and Evolution of Fishes</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 526</td>
<td>Fish Ecology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIO SCI 532</td>
<td>Behavioral Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 540</td>
<td>Microbial Diversity and Physiology</td>
<td>4</td>
</tr>
</tbody>
</table>
BIO SCI 562  Topics in Field Biology: (Subtitle)  1-2
BIO SCI 605  Concepts and Models of Aquatic Ecology  3
BIO SCI 607  Environmental Microbiology  3
BIO SCI 611  Seminar on Recent Advances in Limnology and Oceanography: (Subtitle)  2
CES 289  Internship in Environmental Studies, Lower Division  1-6
CES 489  Internship in Environmental Studies, Upper Division  1-6
CES 497  Study Abroad: (Subtitle)  1-12
CES 499  Ad Hoc: Practical Approaches to a Sustainable Future  3
CES 550  Introduction to Science Interpretation  3
CES 551  Application of Science Interpretation  3
CHEM 221  Elementary Quantitative Analysis  4
CHEM 341  Introductory Survey of Organic Chemistry  3
CHEM 342  Introductory Organic Chemistry Laboratory  2
CHEM 343  Organic Chemistry  3
CHEM 344  Organic Chemistry Laboratory  2
CHEM 345  Organic Chemistry  3
CHEM 501  Introduction to Biochemistry  3
CHEM 524  Intermediate Analytical Chemistry  3
CHEM 560  Biophysical Chemistry  3
CIV ENG 492  Environmental Impact Assessment  3
ECON 328  Environmental Economics  3
ECON 525  The Economics of Water  3
FRSHWTR 502  Aquatic Ecosystem Dynamics  3
FRSHWTR 504  Topics in Freshwater Sciences  1-3
FRSHWTR 621 (BIOBenthic Ecology  3
SCI 521)
FRSHWTR 690  Undergraduate Seminar in Freshwater Sciences  1-3
GEOG 215  Introduction to Geographic Information Science  3
GEOG 247 (447)  Quantitative Analysis in Geography  3
GEOG 306  Natural Hazards  3
GEOG 310  General Climatology  3
GEOG 340  Biogeography  3
GEOG 350  Conservation of Natural Resources  3
GEOG 403  Remote Sensing: Environmental and Land Use Analysis  4
GEOG 405  Cartography  4
GEOG 415  Hydrogeography  3
GEOG 424  Karst Geomorphology  3
GEOG 450  Climates of the Past and Climate Change  3
GEOG 455  Applied Climatology  3
GEOG 464  Environmental Problems  3
GEOG 475  Geography of Soils  3
GEOG 515  Watershed Analysis and Modeling  3
GEOG 520  Physical Geography of the City  3
GEOG 525  Geographic Information Science  4
GEOG 547  Spatial Analysis  3
GEOG 564  Urban Environmental Change and Social Justice  3
GEOG 625  Intermediate Geographic Information Systems  4
GEO SCI 301  Principles of Mineralogy  3
GEO SCI 400  Water Quality  3
GEO SCI 409  Process Geomorphology  3
GEO SCI 443  Glacial and Pleistocene Geology  3
GEO SCI 463  Physical Hydrogeology  3
GEO SCI 464  Chemical Hydrogeology  3
GEO SCI 562  Environmental Surface Hydrology  3
Other Potential Course:

Because of the interdisciplinary nature of the Conservation and Environmental Science Program, students are encouraged to work with advisors to identify classes that will enable them best to gain the knowledge to achieve their goals. CES students can petition the Program to accept many classes beyond those listed above, if they are appropriate for the major and the individual student’s program of study. For example, the following courses may apply:

- ANTHRO 699 Independent Work 1-3
- BIO SCI 497 Study Abroad: (Subtitle) 1-12
- BIO SCI 599 Special Topics in Biological Sciences: (Subtitle) 1-3
- BIO SCI 699 Independent Study 1-3
- GEOG 698 GIS/Cartography Internship 1-6
- GEOG 699 Independent Work 1-3
- GEO SCI 699 Advanced Independent Reading 1-3

Course of Study: Minor

The Conservation and Environmental Science minor requires completion of a minimum of 25 credits distributed among CES courses and approved electives, with at least 12 credits in upper-level (numbered 300 and above) courses. Students must complete at least 9 upper-level credits for the minor in residence at UWM and must attain a 2.5 GPA on all UWM credits attempted for the minor. In addition, the College requires that students attain a 2.5 GPA on all minor credits attempted, including transfer work.

I. Introductory Core Requirements

- CES 210 Introduction to Conservation and Environmental Science 3
- An introductory course in earth sciences from the following (3 cr.):
  - GEO SCI 100 Introduction to the Earth 3
  - GEOG 120 Our Physical Environment 3
- An introductory course in chemistry selected from the following (4-5 cr.):
  - CHEM 100 Chemical Science 4
  - CHEM 102 General Chemistry 5
  - CHEM 105 General Chemistry for Engineering 5
- An introductory course in biology selected from the following (3-4 cr.):
  - BIO SCI 102 Elements of Biology 3
  - BIO SCI 150 Foundation of Biological Sciences I 4

Note: Students pursuing BS degrees and those interested in taking upper-level natural science classes such as BIO SCI 310 (General Ecology) should take CHEM 102 and BIO SCI 150 as part of their introductory core requirements.

II. Upper-Level Requirements

a. One of the following (3 cr.):
   - CES 471 Principles of Natural Resources Management 3
   - GEOG 350 Conservation of Natural Resources 3

b. At least 9 upper-level (numbered 300 or above) credits selected from the list of approved elective courses for the CES major. At least 6 of these must be taken outside the student’s major program and at least 3 must be from the
natural sciences.

Courses (CES)

Web Home Pages:
[ College of Letters & Science ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2013-2014
Conservation and Environmental Science
[ College of Letters & Science ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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Many new employees find that their jobs in IT, business analysis, finance, accounting, and other common corporate functions involve far more communication and, in particular, writing than they anticipated. This Business and Technical Communications Certificate combines an innovative approach with practical skills in writing, research, communication, and technology, enabling students to accelerate their careers by developing exceptionally strong writing and communication skills for working in a broad range of contexts.

The Certificate, then, offers specialized training to employees and students who do not plan to be communication specialists, but whose jobs and job aspirations require significant communication skills. The structure and content of the proposed certificate draws from faculty members’ workplace and consulting experiences together with their knowledge of the needs of industry professionals. The certificate is constructed so that students who complete it will be well prepared for fundamental and advanced communication tasks in their current and future workplaces. To that end, the certificate coursework covers the following topics:

- Introduction to Business and Technical Communications
- Advanced Business and Technical Communications
- Strategic Writing for Organizations
- Information Design
- Technical Communications and Organizational Leadership
- Project Management

Program Eligibility
Students who wish to enroll in the Certificate must be admitted to UWM and will have to meet the basic prerequisites of the courses that are equivalent to each given competency set. For English 206, that will mean having passed or tested out of English 102. All other courses in the Certificate require English 206 as a prerequisite.

Program Requirements
To obtain the certificate, students first must complete English 206, after which they may study the additional competency sets in any order. Completing the certificate means having gained credit in all six courses, with a minimum grade point average of 2.50. Students also must meet College of Letters & Science residency requirements, which means that at least nine of their Certificate upper-level (numbered 300 and above) credits must be earned at UWM.

- English 206: Technical Writing
- English 428: Strategic Writing for Organizations
- English 429: Technical Communications and Organizational Leadership
- English 435: Advanced Professional Writing
- English 437: Project Management
- English 439: Information Design

Awarding the Certificate
Students concurrently completing a bachelor’s degree receive the certificate upon completion of their degree requirements; post-baccalaureate special students and non-degree students will be awarded the Certificate upon successful completion of all program requirements.
University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:

Business and Technical Communication

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Organizational Administration

Organizational Administration (OA), a committee interdisciplinary major, is designed to develop skills in the research and analysis of problems, creative thinking, and oral and written communication. A Bachelor of Arts degree with a major in Organizational Administration provides students with the educational background necessary to succeed in a broad spectrum of professions and is an excellent foundation for the pursuit of several advanced degree programs. For example, completion of the Bachelor of Arts degree with a major in Organizational Administration and the General Business minor (plus two additional courses) satisfies all of the requirements for admission without deficiencies to UWM’s Master’s in Business Administration (MBA) program.

The Organizational Administration major may be completed as an on-campus program and also is available off-campus through a collaborative bachelor’s degree program (UWM College Connection) offered in partnership with several two-year campuses. Most of the OA major courses are available online. Students who are interested in completing the OA major at the UW-Milwaukee campus should contact an on-campus academic advisor in the College of Letters & Science. Students who wish to complete their UWM baccalaureate degree on-site at a participating two-year campus should contact the UWM advisor assigned to that campus. Check website www4.uwm.edu/letsci/studentservices for current advisor contact information.

Course of Study

In addition to the major requirements listed below, students must complete all requirements of the Bachelor of Arts degree in the College of Letters & Science. The major requires a total of 48 credits in the College of Letters & Science, including 24 credits in upper-division (300-level and above) courses. Students are required to attain a 2.5 GPA in all UWM credits attempted for the major. In addition, the College requires that students attain a 2.5 GPA in all major credits attempted, including transfer work. The following courses are required:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commun 101</td>
<td>Introduction to Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>Commun 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>Commun 105</td>
<td>Business and Professional Communication</td>
<td>3</td>
</tr>
<tr>
<td>Commun 310</td>
<td>Communication in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>Econ 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Econ 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Econ 210</td>
<td>Economic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>Econ 415</td>
<td>Economics of Employment and Labor Relations</td>
<td>3</td>
</tr>
<tr>
<td>Commun 300</td>
<td>Interviews and Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>Commun 323</td>
<td>Communication in Groups and Teams</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following two Communication courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commun 300</td>
<td>Interviews and Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>Commun 323</td>
<td>Communication in Groups and Teams</td>
<td>3</td>
</tr>
</tbody>
</table>
One of the following three Economics courses:

Econ 325 (330)  Money and Banking  3
Econ 351 (396)  Introduction to International Economic Relations  3
Econ 448 (478)  Economics of Human Resources  3

One of the following two English courses:

English 205  Business Writing  3
English 206  Technical Writing  3

One of the following two English courses:

English 425  Advanced Business Writing  3
English 430  Advanced Writing Workshop  3

One of the following two Sociology courses:

Sociol 101  Introduction to Sociology  3
Sociol 104  Introduction to Social Psychology  3

Two of the following six Sociology courses:

Sociol 307  Industrial Sociology  3
Sociol 327  Social Organization of Technology  3
Sociol 330  Economy and Society  3
Sociol 333  Social Class in Industrial Society  3
Sociol 338  Small Groups  3
Sociol 443  Organizations, Occupations, and Professions  3

One of the following three courses (satisfies L&S research requirement):

Commun 370  Quantitative Research in Communication  3
Psych 325  Research Methods in Psychology  4
Sociol 361  Research Methods in Sociology  3

Program Coordinating Committee:

Professor Kathryn Dindia, Communication, Chair; Professor Nancy Mathiowetz, Sociology; Professor Mohsen Bahmani-Oskoe, Economics; Professor Rachel Spilka, English; and Associate Dean Tom O’Bryan, L&S (ex officio).
The College of Letters & Science cosponsors the university-wide Cultures and Communities (CC) Certificate Program, which offers students an opportunity to complete their University General Education Requirements through courses focusing on U.S. multicultural studies, global and international perspectives, and the community and cultural contexts of art, science, health, and technology. Students must complete at least 3 credits in each of the areas below, including one course with a service learning component. All students are required to complete an exit survey before the certificate is awarded.

The following list of courses approved for the CC certificate indicates which requirement of the certificate is fulfilled by each course and how each course counts toward the University General Education Requirements. L&S students who wish to have their CC courses count toward their Letters & Science breadth requirements must select L&S courses. A single course may satisfy only one area. For the most up-to-date list, contact the Cultures and Communities Program office.

Area I. Cultures and Communities Core Course

ANTHRO 150 Multicultural America, 3 cr. (SS&)
ART 150 Multicultural America, 3 cr. (A&)
ENGLISH 150 Multicultural America, 3 cr. (HU&)
FILM 150 Multicultural America, 3 cr. (A&)
HIST 150 Multicultural America, 3 cr. (HU&)
SOCIOL 150 Multicultural America, 3 cr. (SS&)
URBPLAN 350 Social Justice, Urban Planning, and the New Multicultural America, 3 cr. (&)
URB STD 150 Multicultural America, 3 cr. (SS&)
WMNS 150 Multicultural America, 3 cr. (HU&)

Area II. Cultures and Communities of the United States

Africology

100 Black Reality: Survey of African-American Society (HU&)

Robert Smith, Associate Professor, Department of History, Senior Director, Email: smithrs@uwm.edu
Cheryl Ajirotutu, Associate Professor, Department of Anthropology, Senior Assistant Director, Email: yinka@uwm.edu
Kate Powers, Advisor, NWQ B 5420, (414) 229-6686, powersk@uwm.edu
102 Survey of African-American Literature (HU&)
111 Introduction to African-American History to 1865 (HU&)
112 Introduction to African-American History, 1865-Present (HU&)
125 Economics of the Black Community (SS&)
192 First-Year Seminar (HU)
   Topic: African American Life Stories
193 First-Year Seminar (SS)
   Topic: Race in Popular Culture
205 The Poetry of African, African-American and Caribbean Writers (HU&) (if not selected in Area III)
210 The African-American Novel (HU&)
215 Introduction to Black Social and Cultural Traditions (SS)
228 Introduction to Black Political Economy (SS)
250 Black Women and White Women in the Contemporary United States (SS)
265 Psychological Effects of Racism (SS&)
314 The School in African American Life (HU&)

**American Indian Studies**
101 Introduction to American Indian Studies (SS&)
192 First-Year Seminar: (Subtitle) (HU)
193 First-Year Seminar: (Subtitle) (SS)
203 Western Great Lakes American Indian Community Life of the Past (SS&)
276 Introduction to American Indian Literature: (Subtitle) (HU&) (jointly offered with English)
320 Social Change in American Indian Societies (SS&) (jointly offered with Sociol)
321 Contemporary Issues of the American Indian (SS&) (jointly offered with Sociol)
372 Survey of American Indian Literature (HU&) (jointly offered with English)
520 Studies in American Indian Literature: (Subtitle) (&) (jointly offered with English)

**Anthropology**
150 Multicultural America (SS&) (if not selected above)
193 First-Year Seminar (SS)
   Topic: Museums: Gateways to Modern Life
*Topic: Oral Traditions*

*Topic: Museums for Educators*

213 American Indian Peoples of Wisconsin (SS&)

**Arabic**

164 Arabs and Islam in America (HU)

**Communication**

350 Intercultural Communication (SS&)

**Economics**

193 First-Year Seminar (SS)

  *Topic: Growth and Development of China, Japan, and Korea*

248 Economics of Discrimination (SS&)

**Educational Policy and Community Studies**

113 The Milwaukee Community (SS)

212 Educational Issues in Spanish Speaking Communities (HU&)

314 The School in African American Life (HU&)

460 The Chicano Experience (HU&)

560 Education and Hispanics (SS&)

621 History of Native Education and Policy Development (&)

625 Race Relations in Education (&)

**English**

150 Multicultural America (HU&) (if not selected above)

192 First-Year Seminar (HU)

  *Topic: African American Folklore in Literature*

  *Topic: Hmong-American Life Stories (HU&)*

  *Topic: Southeast Asian American Literature and Life*

  *Topic: Images of American Indians (HU&)*

  *Topic: Images of American Indians in Art, Film, and Literature*

  *Topic: Asian American Life Stories*
Topic: Asian-American Literature (HU&)

Topic: Representations of the American Dream

Topic: Multicultural American (no credit for students with credit in English 150)

Topic: Multicultural Milwaukee (HU&)

243 Introduction to Literature by Women (HU)

Topic: Fiction by Women of Color

Topic: Women, Race, and Class

248 Literature and Contemporary Life (HU)

Topic: Introduction to LGBT Studies

Topic: Growing up Gay

Topic: Katrina in Context

Topic: Queer Theory and the Novel

276 Introduction to American Indian Literature: (Subtitle) (HU&) (jointly offered with AIS)

277 Introduction to Ethnic Minority Literature: (Subtitle) (HU&)

279 Introduction to Latino/a Literature: (Subtitle) (HU&)

280 Introduction to Asian-American Literature: (Subtitle) (HU&)

281 Introduction to African-American Literature: (Subtitle) (HU&)

372 Survey of American Indian Literature (HU&) (jointly offered with AIS)

373 Survey of Ethnic Minority Literature (HU&)

Topic: Z. N. Hurston, A. Walker, T. Morrison, G. Naylor

374 Survey of U.S. Latino/a Literature (&)

375 Survey of Asian-American Literature (&)

376 Survey of African-American Literature to 1930 (&)

377 Survey of African-American Literature, 1930 to the Present (&)

463 Writers in African-American Literature: (Subtitle) (&)

517 Studies in African-American Literature: (Subtitle) (&)

520 Studies in American Indian Literature: (Subtitle) (&) (jointly offered with AIS)

521 Studies in Ethnic Minority Literature: (Subtitle) (&)

523 Studies in U.S. Latino/a Literature: (Subtitle) (&)
524 Studies in Asian-American Literature: (Subtitle) (&)
685 Honors Seminar (HU)

*Topic*: Chinese American Women Writers (HU&)

*Topic*: Asian American Women Writers (HU&)

**Ethnic Studies**

101 The Making of American Cultures: Africans, Europeans, and Indian Nations (HU&)
102 Transnational Migrations: Asian-, Arab-, Euro-American, and Latino Identity (HU&)
200 Racial Minorities in the United States (SS&)
250 Selected Topics in Ethnic Studies (SS)

*Topic*: Blacks, Jews, and Black Jews

265 Hmong Americans: History, Culture, and Contemporary Life (SS&)
275 Queer Migrations

**Exceptional Education**

330 Deaf History (SS)
352 American Deaf Culture (SS)

**Film**

150 Multicultural America (A&) (if not selected above)

**Geography**

114 Geography of Race in the United States (SS&)
193 First-Year Seminar (SS)

*Topic*: Exploring India: Societies, Cultures, Environments

**Hebrew Studies**

254 Studies in Hebrew Culture (HU)

*Topic*: The Jewish-American Experience

282 Jewish Identity in Contemporary America (HU)

**History**

150 Multicultural America (HU&) (if not selected above)

200 Historical Roots of Contemporary Issues: (SS)
Topic: The Civil Rights Movement in America (SS&)

Topic: The Civil Rights Movement in Milwaukee (SS&)

Topic: U.S.-Mexico Borderlands

229 History of Race, Science, and Medicine United States (HU&) (if not selected in Area V)

243 History of Women in American Society (HU)

262 North American Indian History to 1887 (SS&)

263 North American Indian History Since 1887 (SS&)

267 The History of Latinos in the United States (HU&)

269 Asian Americans in Historical Perspective (HU&)

270 Topics in American History: (Subtitle)

   Topic: Mixed Race Identity in American Culture (HU&)

271 The 1960s in the United States: A Cultural History (HU)

436 Immigrant America Since 1880 (HU&)

445 African Americans from Slavery to Freedom (&)

446 African Americans Since the Civil War (&)

473 History of Wisconsin Indians (HU&)

474 Topics in North American Indian History: (Subtitle) (&)

Hmong

265 Hmong Americans: History, Culture, and Contemporary Life (SS&)

Italian

242 Topics in Italian American Studies: (Subtitle) (HU)

Jewish Studies

101 Jewish Culture in America: History, Literature, Film (HU)

210 Jewish and Ethnic Narratives and Identities in the Media (HU)

247 Topics in Jewish Literature, Art, and Culture: (Subtitle) (HU)

282 Jewish Identity in Contemporary America (HU)

Journalism, Advertising, and Media Studies

111 Gender and the Media (HU)

210 Jewish and Ethnic Narratives and Identities in the Media (HU)
Latino Studies
101 Introduction to Latino Studies (SS&)

L&S Natural Science
295 Seminar in the Natural Sciences (NS)
  *Topic*: Green Science and Urban Space

Lesbian, Gay, Bisexual, and Transgender Studies
200 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (HU)

Political Science
215 Ethnicity, Religion and Race in American Politics (SS&)

Psychology
230 Social Psychology: Psychological Perspectives (SS)
319 Gay and Lesbian Psychology (SS)

Social Work
665 Cultural Diversity and Social Work (SS&)

Sociology
150 Multicultural America (SS&) (if not selected above)
193 First-Year Seminar (SS)
  *Topic*: Latinos in the City (SS&)
    *Topic*: Buffalo to Bingo: Changing American Indian Societies (SS&)
224 American Minority Groups (SS&)
233 Social Inequality in the United States (SS)
250 Sex and Gender (SS)
320 Social Change in American Indian Societies (SS&) (jointly offered with AIS)
321 Contemporary Issues of the American Indian (SS&) (jointly offered with AIS)
323 Perspectives on Latino Communities (SS&)

Spanish
371 Introduction to Latino Literature in English (HU&)
373 Topics in Latino Literature in English: (Subtitle) (HU&)

Urban Planning
350 Social Justice, Urban Planning, and the New Multicultural America (&)

Urban Studies
150 Multicultural America (SS&) (if not selected above)

Women's Studies
150 Multicultural America (SS&) (if not selected above)
200 Introduction to Women's Studies: A Social Science Perspective (SS)
201 Introduction to Women's Studies: A Humanities Perspective (HU)

Area III. Global Perspectives on Culture and Community

Africology
205 The Poetry of African, African-American and Caribbean Writers (HU&) (if not selected in Area II)
232 Survey of African Societies and Cultures (SS)
235 African Americans and South Africa (HU)
334 Survey of Black American and Black Brazilian Societies (SS)

Anthropology
102 Introduction to Anthropology: Culture and Society (SS)
104 Lifeways in Different Cultures: A Survey of World Societies (SS)
250 Women's Roles in Cross-Cultural Perspective (SS)
355 Globalization, Culture, and Environment (SS)

Arabic
111 Cultures and Civilizations of the Muslim Middle East (HU)

Art History
104 African, New World and Oceanic Art and Architecture (HU)
105 Asian Art and Architecture (HU)

Comparative Literature
133 Contemporary Imagination in Literature and the Arts (HU)
135 Experiencing Literature in the 21st Century (HU)

*Topic:* Magical Realism and the Fantastic in Literature and Film
192 First-Year Seminar (HU)
  
  Topic: The Bible in African Societies
  
  Topic: Immigration and Exile in the Literatures of the Americas

207 World Literature in Translation: Antiquity Through the 1600s (HU)
208 World Literature in Translation: The 17th to the 21st Century (HU)

230 Literature and Society (HU)
  
  Topic: Gender and Utopia
  
  Topic: "New World" Literature
  
  Topic: Women and Sexuality
  
  Topic: Nazi Germany: Victims, Perpetrators, and Bystanders

231 Literature and Religion (HU)
  
  Topic: Holocaust and the Arts: Literature and Music
  
  Topic: Holocaust: Children and War
  
  Topic: Holocaust in Literature and Film
  
  Topic: Holocaust in Poland
  
  Topic: Nazis in Western Europe
  
  Topic: The Quran as Literature

232 Literature and Politics (HU)
  
  Topic: Contemporary Women Writers and the Ethics of Violence
  
  Topic: Gender and the Historical Novel
  
  Topic: The Representation of Revolution
  
  Topic: Women and War in Latin America and the Caribbean

233 Literature and Film (HU)
  
  Topic: The Literature and Film of Globalization

309 Great Works of Modern Literature (HU)
  
  Topic: Cultural Identity and the Postcolonial Text

Criminal Justice

410 Comparative Criminal Justice (SS)
Economics

193 First-Year Seminar (SS)

Topic: Growth and Development of China, Japan, and Korea

Geography

110 The World: Peoples and Regions (SS) (if not selected in Area V)
213 Geography of Asia (SS)
231 Geography of Islam (SS)

Global Studies

101 Introduction to Global Studies I: People and Politics (SS)
202 Introduction to Global Studies III: Globalization and Technology (SS)

Hebrew Studies

238 Topics in Hebrew/Jewish Literature, Art, and Culture (HU)

Topic: The Arab-Israeli Conflict

Topic: Judaism, Christianity, Islam: Three Religions – One God

Topic: Moses, Jesus, Mohammed

Topic: Hebrew Culture: From the Bible to Popular Movies

254 Studies in Hebrew Culture (HU)

Topic: Arabs and Jews in the Middle East: Conflict or Peace

Topic: The Holocaust

Topic: Contemporary Israeli Film

256 Good and Evil in Judaism, Christianity, Islam (HU)

261 Representing the Holocaust in Words and Images (HU)

368 Jewish and Christian Responses to the Holocaust (HU)

History

175 East Asian Civilization to 1600 (HU)

176 East Asian Civilization Since 1600 (HU)

180 Latin American Society and Culture (SS)

192 First-Year Seminar (HU)
Global Religions: Diversity and Dialogue

History and Globalization

200 Historical Roots of Contemporary Issues (SS)

Latin America and Globalization

The African Diaspora

210 The Twentieth Century: A Global History (SS)

Islamic Civilization:
- 280 The Formative Period, ca. 500-1258 (HU)
- 281 The Middle Period, ca. 1200-1805 (HU)
- 282 The Modern Middle East in the Nineteenth and Twentieth Centuries (HU)
- 287 The Vietnam War (SS)

Introduction to Jewish History (HU)

Jewish Studies

261 Representing the Holocaust in Words and Images (HU)

368 Jewish and Christian Responses to the Holocaust (HU)

379 Introduction to Jewish History (HU)

Latin American and Caribbean Studies

101 Introduction to Latin American and Caribbean Studies (HU)

Philosophy

204 Introduction to Asian Religions (HU)

Political Science

106 Politics of the World's Nations (SS)

175 Introduction to International Relations (SS)

371 Nationalism and Ethnic Conflict (SS)

Portuguese

192 First-Year Seminar (HU)

225 Understanding Brazil (HU)

African Presence in Brazilian Culture and Literature

Race, Class, and Gender
360 Brazilian Culture (HU)

*Topic:* Brazilian Music

*Topic:* Brazilian Culture Through Film

*Topic:* Music of Brazil and Portuguese-Speaking Countries

380 Luso-Brazilian Literature in Translation (HU)

*Topic:* Race, Gender, and Military Struggles – Africa, Brazil, etc.

**Religious Studies**

101 Introduction to World Religions (HU)

**Russian**

192 First-Year Seminar (HU)

*Topic:* Russia Today

**Sociology**

103 World Society (SS)

235 Social Change in the Global Economy (SS)

**Spanish**

225 Understanding the Hispanic World: (Subtitle) (HU)

380 Spanish Literature in Translation: (Subtitle) (HU)

383 Spanish-American Literature in Translation: (Subtitle) (HU)

391 Social and Historical Issues in the Hispanic World: (Subtitle) (HU)

**Area IV. Art, Culture, and Community**

**Art**

100 American Art and Culture (A) (LEC with CC content only)

105 Art Survey (A)

106 Art Survey (A)

150 Multicultural America (A&) (if not selected above)

**Dance**

122 African Dance and Diaspora Technique I (A&)

313 History of Dance in the African Diaspora (A&)

320 Rituals and Culture (A)
360 Movement and Learning (A)
370 World Movement Traditions (A)

   Topic: Dances of the World

Film

150 Multicultural America (A&) (if not selected above)
302 Video in the Classroom (A)

Music

102 American Popular Music (A)
280 Special Studies in Music

   Topic: Music in American Cultures (A&)
309 American Folk and Popular Music (A)
310 Introduction to World Musics (A)

Theatre

120 Performance and Popular Culture (A)
204 Participatory Theatre (A)
460 Storytelling (A)

   Topic: Elder Tales
   Topic: Milwaukee - Stories from Our Own Backyard
   Topic: Stories and the Cultural Voice
   Topic: Toby to Tupac - Stories and Songs in Popular Culture
   Topic: Discovering Your Personal Story

Area V. Science, Culture, and Society

Biological Sciences

103 Topics in Modern Biology (NS)

   Topic: Biology Through Art (NS)
185 Introductory Biology for Teachers (NS+)
194 First-Year Seminar (NS)

   Topic: Forbidden Knowledge: Science and Censorship
206 Biology of Women (NS)

**Conservation and Environmental Science**

210 Introduction to Conservation and Environmental Science

**Geography**

110 The World Peoples and Regions (SS) (if not selected in Area III)

125 Introduction to Environmental Geography (NS)

140 Our Urban Environment: Introduction to Urban Geography (SS)

213 Geography of Asia (SS)

350 Conservation of Natural Resources (SS)

**Health Sciences**

245 Client Diversity in Health Sciences: An Interdisciplinary Approach (SS)

*Course offered by the College of Health Sciences; also available as C L Sci, ComSDis, HCA, Hum Kin, OccThpy, and TherRec.*

**History**

229 History of Race, Science, and Medicine in the United States (HU&) (if not selected in Area II)

**L&S Natural Sciences**

295 Seminar in the Natural Sciences (NS)

  *Topic: Seminar on Green Science and Urban Spaces*

**Nursing**

101 Cultural Diversity in Health Care (SS&)

685 Honors Seminar

  *Topic: Negotiating Differences: Race and Culture in Contemporary Healthcare*

**Philosophy**

244 Ethical Issues in Health Care: (Subtitle) (HU)

**Physics**

194 First-Year Seminar (NS)(NS)

  *Topic: Physics, Science, and Technology in Our Society: Friend or Foe?*

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Web Home Pages:

[ College of Letters & Science ]
The Childhood and Adolescence Studies Certificate Program provides students with a multidisciplinary opportunity to focus on children and adolescents through course offerings in the social sciences, humanities, health sciences, social work, education, and other disciplines. A wide spectrum of courses will allow students to understand children and adolescents from a variety of perspectives, facilitating the implementation of effective strategies to improve and enrich the lives of children and adolescents.

The Childhood and Adolescence Studies Certificate is intended to enhance a bachelor’s degree. The Program is open to all students seeking a bachelor’s degree from UWM and to students who previously have received a bachelor’s degree from UWM or any other accredited college or university.

Program Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.50, at least 18 credits in approved childhood and adolescence studies courses as indicated below. Courses for the certificate may not be taken on a credit/no credit basis.

Core Courses, 6 cr.

- PSYCH 260 Child Psychology 3
- SOCIOL 448 Sociology of Children and Adolescents 3

Elective Courses, 12 cr.

Elective credits must be selected from the list of approved courses below. Students may petition the CAS Advisory Committee for approval of appropriate courses not on the approved list.

Other Requirements

Twelve of the 18 required credits must be earned in residence at UWM. Of these twelve residence credits, nine must be taken at the 300 level or above. Of the 18 required credits, 12 must be in the College of Letters & Science, with at least six of these at the 300 level or above. Three credits must be elected from outside the College of Letters & Science. No more than nine credits from any one department may count toward the Childhood and Adolescence Studies Certificate. A maximum of six credits in Independent Study may count toward program requirements.

Approved Courses

Letters & Science â€“ at least 6 credits are required

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFRICOL 451</td>
<td>Rites of Passage in Black Societies</td>
</tr>
<tr>
<td>AFRICOL 565</td>
<td>Selected Texts/Topics in Africology: &quot;Raising Children, 'Race-ing' Children&quot; subtitle</td>
</tr>
<tr>
<td>ANTHRO 446</td>
<td>The Child in Different Cultures</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies: “Troubled Teens” subtitle</td>
</tr>
<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: &quot;Teens on TV&quot; subtitle</td>
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<tr>
<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind - &quot;Growing Up&quot; subtitle</td>
</tr>
<tr>
<td>HONORS 351</td>
<td>University Honors Seminar in the Social Sciences - &quot;Making Meaning of Children's Play&quot;,</td>
</tr>
</tbody>
</table>
Independent study courses focusing on children and adolescents may be accepted with the approval of the CAS Advisory Committee. If a core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the CAS Advisory Committee to accept another course in its stead. Other courses not on this list but relevant to the study of children and adolescents may be accepted with the approval of the CAS Advisory Committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the CAS Advisory Committee. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

Awarding the Certificate

Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.
Students following this curriculum are awarded the Bachelor of Science degree. This professional program has been approved by the American Chemical Society as providing a strong professional training in chemistry suitable for those who intend to go on to graduate school or to enter the chemical profession directly. Graduates of this program are awarded a certificate by the American Chemical Society; they also qualify for full membership in the Society upon graduation, without the three years of experience that normally are required. The Department of Chemistry and Biochemistry administers the program.

Admission. Students may declare the Course in Chemistry as their major when they have completed Chem 102 and 104, either have completed or currently are enrolled in Chem 343, Math 232, and Physics 209, and have earned a GPA of 2.50 or better on all chemistry courses attempted. Students are urged strongly to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in chemistry.

Curriculum Requirements. General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by Chem 102 and 104 (10 cr.). Students without high school chemistry, or whose background in science is weak, may need to take Chem 100 first. Students intending to follow the Course in Chemistry should begin general chemistry in their first semester. Because study in chemistry is cumulative, postponing the start in chemistry courses will delay completion of the degree.

Mathematics and physics are essential in the education of a chemist. In addition, there are calculus and physics prerequisites to physical chemistry, which in turn is a prerequisite to advanced chemistry courses required for the degree. It is essential, therefore, to start the calculus sequence, along with the general chemistry, early in the program.

The Course in Chemistry also has specific requirements outside of the sciences. To graduate, students are required to have an overall GPA of 2.0 and a 2.5 GPA in chemistry courses other than Chem 106. A total of at least 18 credits in the humanities, social sciences, and arts is required. This course array supersedes the College of Letters & Science breadth requirements; courses must be selected to include the campus-wide GER distribution requirements (6 cr. each in humanities and social sciences, 3 cr. in arts, and 3 cr. in cultural diversity). Students also must complete two courses (at least 6 credits) in a single language (including American Sign Language) other than English at the 100 level or above with grades of C or higher. This requirement is satisfied by two years of a single language (including American Sign Language) other than English taken in high school. English 102 with a grade of C or better is required to help in developing written communication skills.

Requirements for the Course in Chemistry are as follows:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td>General Chemistry (Chem 102/104)</td>
<td>10</td>
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<tr>
<td>Analytical Chemistry (Chem 221)</td>
<td>4</td>
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<tr>
<td>Organic Chemistry (Chem 343, 344, 345)</td>
<td>8</td>
</tr>
<tr>
<td>Physical Chemistry (Chem 561, 562, 563)</td>
<td>8</td>
</tr>
<tr>
<td>Inorganic Chemistry (Chem 311)</td>
<td>3</td>
</tr>
<tr>
<td>Biochemistry (Chem 501)</td>
<td>3</td>
</tr>
<tr>
<td>Instrument Analysis (Chem 524)</td>
<td>3</td>
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</tbody>
</table>
Advanced Chemistry Laboratories (Chem 582, 584) 4
Advanced Inorganic Chemistry (Chem 511) 3
Capstone Requirement/Independent Research (Chem 691 or Chem 692 or Chem 697) 1 or 2
Calculus (Math 231, 232, 233, & Math 234) 16
Physics, calculus-based with lab (Physics 209/214, 210/215) 10
English 102 with grade of C or better or score level 4 on English placement exam 0-3
Humanities, social sciences, and arts 18
Two semesters or equivalent of a language other than English 6

The Course in Chemistry can be completed in four academic years, within the 120-credit requirement of the Bachelor of Science degree. However, without good pre-college preparation, some additional credits might be required. The student who must take additional mathematics before beginning calculus, or must take Chem 100 before general chemistry, or needs two college semesters of foreign language, or has difficulty in satisfying writing requirements, may require more than the 120-credit minimum. There is room in the program to handle some weakness in preparation, but it may require taking a heavy load of science and mathematics courses during the first two years and postponing some of the humanities/social sciences/arts courses until the third and fourth years.

A recommended curriculum for the Course in Chemistry is outlined below. The two semesters of physics may be started as soon as calculus is begun, and should be completed during the first two years. Most students finish Chem 343-345 (organic chemistry) and 221 (quantitative analysis) during the first two years, although some delay in these courses is not critical. Physical chemistry should be taken in the junior year.

The curriculum shown presumes high school language preparation equivalent to the first two semesters of college language study. If the foreign language requirement must be satisfied through college work, it would be best to postpone its start until the junior year, using those early electives for GER distribution. German, Russian, and French traditionally have been most useful in chemistry, but Japanese and Chinese are increasing in importance (see the Department of Foreign Languages and Literature). Students who must take additional writing courses to qualify for English 102 should do so early.

All students interested in the Course in Chemistry should see an advisor in the Chemistry and Biochemistry Department early in their program. This is particularly important for those who will need to deviate from the indicated curriculum in its early stages.

**RECOMMENDED CURRICULUM FOR THE COURSE IN CHEMISTRY**

<table>
<thead>
<tr>
<th>Freshman Year, Sem. 1</th>
<th>Cr.</th>
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<tbody>
<tr>
<td>Chem 102</td>
<td>General Chemistry 5</td>
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<tr>
<td>Math 231</td>
<td>Calculus and Analytic Geometry 4</td>
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<tr>
<td>English 102</td>
<td>College Writing and Research 3</td>
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<td>Course</td>
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**Freshman Year, Sem. 2**

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<th>Course</th>
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<tr>
<td>Chem 104 General Chemistry and Qualitative Analysis</td>
<td>5</td>
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<tr>
<td>Math 232 Calculus and Analytic Geometry</td>
<td>4</td>
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<td>Electives</td>
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**Sophomore Year, Sem. 1**

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<tr>
<td>Chem 223 Elementary Quantitative Analysis</td>
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<tr>
<td>Chem 343 Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Physics 209/214 Physics I (Calculus Treatment)</td>
<td>5</td>
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<tr>
<td>Math 233 Calculus and Analytic Geometry</td>
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**Sophomore Year, Sem. 2**

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<tr>
<td>Chem 344 Organic Chemistry Laboratory</td>
<td>2</td>
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<tr>
<td>Chem 345 Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Math 234 Linear Algebra and Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>Physics 210/215 Physics II (Calculus Treatment)</td>
<td>5</td>
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<tr>
<td>Elective</td>
<td>1-3</td>
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**Junior Year, Sem. 1**

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<tbody>
<tr>
<td>Chem 311 Introduction to Inorganic Chemistry</td>
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<tr>
<td>Chem 501 Introduction to Biochemistry</td>
<td>3</td>
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<tr>
<td>Electives</td>
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**Junior Year, Sem. 2**

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<tr>
<td>Chem 561 Physical Chemistry I</td>
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<tr>
<td>Electives</td>
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**Senior Year, Sem. 1**

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<th>Course</th>
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<tr>
<td>Chem 562 Physical Chemistry II</td>
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<tr>
<td>Chem 563 Physical Chemistry Laboratory</td>
<td>2</td>
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<td>Chem 524 Instrument Analysis</td>
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**Senior Year, Sem. 2**

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Copyright 2014 by the University of Wisconsin-Milwaukee, all rights reserved.
The Certificate Program in Celtic Studies provides for students in any field an integrated course of study across several curricular areas in the historical and contemporary cultures of the Irish, Scots, Welsh, Cornish, Manx, Breton, and Galician peoples. Students can concentrate on the Celtic languages, both spoken and written, or they may choose to investigate the broader themes of the Celtic world, such as art, archaeology, literature, history, folklore, music, and myth. Students also are encouraged to enrich their campus experience through participation in study abroad programs.

Eligibility

The Certificate Program in Celtic Studies is open to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements.

Requirements

To obtain the certificate, students must complete 18 credits in required courses with a minimum GPA of 2.75, including CELTIC 133 and at least 9 credits in upper-division (numbered 300 and above) courses selected from Celtic courses and/or the list of approved electives. At least half the credits for the certificate must be taken in residence at UWM. All students are urged to participate in a study abroad program. Credits earned via study abroad through a UWM-sponsored program count as residence credits. No more than 9 credits from a single curricular area may count toward the certificate requirements, and students must select courses from at least three different curricular areas in completing their requirements. Students elect one of the following options:

OPTION A - Language Emphasis. This option requires the following three courses (9 credits) and at least 9 additional credits numbered 300 or above selected from Celtic courses and/or the approved Celtic studies electives list.

Required Courses

CELTIC 133 Celtic Crossings: Overview of the History and Cultures of the Celtic World
CELTIC 203 Third Semester Gaelic
CELTIC 204 Fourth Semester Gaelic

OPTION B - Cultural Emphasis. This option requires the following two courses (6 credits) and at least 12 credits selected from Celtic courses and/or the approved Celtic Studies electives list.

Required Courses

CELTIC 133 Celtic Crossings: Overview of the History and Cultures of the Celtic World
CELTIC 103 First Semester Gaelic

Recommended Course

CELTIC 103 First Semester Gaelic
Students in the cultural emphasis are encouraged, but not required, to take the following course:

**CELTIC 104 Second Semester Gaelic**

### Approved Celtic Studies Electives

Students may select from all Celtic courses [see “Courses (CELTIC)” below] or any of the following courses offered in other areas.

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<tr>
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<tr>
<td>ANTHRO 306</td>
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<td>ANTHRO 381</td>
<td>Honors Seminar: &quot;The Celtic World&quot; subtitle</td>
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<td>ENGLISH 192</td>
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<td>ENGLISH 243</td>
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<td>ENGLISH 247</td>
<td>Literature and Human Experience: &quot;Literature from Northern Ireland&quot; subtitle</td>
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<tr>
<td>ENGLISH 275</td>
<td>The Forms of Folk Literature: &quot;Irish Myth and Folklore&quot; subtitle</td>
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<td>ENGLISH 285</td>
<td>Modern Irish Literature and Language</td>
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<td>ENGLISH 370</td>
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<td>ENGLISH 464</td>
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<td>ENGLISH 519</td>
<td>Studies in Irish American Literature: (Subtitle)</td>
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<td>ENGLISH 622</td>
<td>Seminar in Irish Literature: (Subtitle)</td>
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<tr>
<td>HIST 200</td>
<td>Historical Roots of Contemporary Issues: &quot;Ireland: A Celtic Nation&quot;; &quot;The Celtic Cultural Experience&quot;; &quot;Ireland’s English Problem&quot; subtitles</td>
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<td>HIST 235</td>
<td>English History to 1688</td>
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<td>HIST 236</td>
<td>Britain Since 1688: Rise and Decline of a Great Power</td>
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<tr>
<td>HIST 250</td>
<td>Topics in European History: &quot;Peace and Conflict in Northern Ireland&quot; subtitle</td>
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<tr>
<td>HIST 353</td>
<td>Ireland Since 1600: Colony to Independent State</td>
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<td>HIST 370</td>
<td>Topics in the History of Religious Thought: &quot;Christianity in Early England and Ireland&quot; subtitle</td>
</tr>
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<td>PORTUGS 499</td>
<td>Ad Hoc: &quot;Galician Culture: An Overview&quot; subtitle</td>
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<td>SPANISH 123</td>
<td>Regional Languages of Spain: First Semester - &quot;Galician&quot; subtitle</td>
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<td>SPANISH 124</td>
<td>Regional Languages of Spain: Second Semester - &quot;Galician&quot; subtitle</td>
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<tr>
<td>SPANISH 377</td>
<td>Introduction to Galician Culture</td>
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</tbody>
</table>

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment
of the program requirements, subject to review by the certificate program committee.

**Awarding the Certificate**

All students will receive the certificate upon successful completion of the program requirements.

**Courses**

*Celtic Studies (CELTIC)*
The Comparative Ethnic Studies Program offers both an undergraduate major through the Committee Interdisciplinary Major and an undergraduate certificate in comparative ethnic studies. For information on the comparative ethnic studies certificate, see the L&S Certificate Programs section of this catalog.

Comparative Ethnic Studies Major

The Comparative Ethnic Studies major provides the opportunity for students to explore questions of social identity and power using an interdisciplinary lens. Taught within the program as well as in departments across the curriculum, Comparative Ethnic Studies courses address questions of race and ethnicity, gender, class, and sexuality through a comparative frame. The major, although sharing the interdisciplinary character of the certificate program, allows students to explore these questions in depth, as students select an established track or create an individualized program in concert with Comparative Ethnic Studies advisors.

Learning Outcomes

Students who complete the major will be able to do the following:

- Discuss the complexities of social identity for public policy as well as cultural formations;
- Provide interdisciplinary explanations for historical and contemporary conflicts based in race, ethnicity, gender, and sexuality;
- Identify and assess different theoretical frameworks for explaining social change and relationships between actors, institutions, and ideas of identity.

Course of Study

The CIM formal submajor in Comparative Ethnic Studies requires completion of at least 33 credits in approved Comparative Ethnic Studies and Comparative Ethnic-related courses. Students may count toward the major a maximum of 9 credits in a single curricular area outside of Comparative Ethnic Studies. A minimum of 18 credits must be completed in L&S courses, and at least 15 credits must be at the upper-division level (courses numbered 300 and above) taken in residence at UWM. The following are required:

Survey Courses, 6 cr. – both of the following:

ETHNIC 101 The Making of American Cultures: African, Europeans, and Indian Nations
ETHNIC 102 Transnational Migrations: Asian-, Arab-, Euro-American, and Latino Identity

Comparative Methods, 3 cr. – at least one of the following:

ETHNIC 275 Queer Migrations
ETHNIC 350 Advanced Topics in Comparative Ethnic Studies: (Subtitle)
ETHNIC 375 Global Violence, Disease, and Death
*** 150 Multicultural America (offered in the following curricular areas: Anthropology, Art,
Students may count a maximum of three courses from this group toward the major requirements.

**Tracked Electives, 18 cr. – Students must complete either Track A or Track B.**

A. Hmong Studies: Students complete the following four courses and six additional credits selected in consultation with the coordinator.

- ETHNIC/HMONG 265 Hmong Americans: History, Culture, and Contemporary Life
- ETHNIC 250 Selected Topics in Ethnic Studies: (Subtitle)
- HMONG 350 Selected Topic in Hmong Studies: (Subtitle) (Course under development)
- HIST 287 The Vietnam War

B. Student-Created Focus: Students complete 18 credits selected in consultation with the coordinator from the list of approved courses.

**Internship, 3 cr. – select one of the following:**

- ETHNIC 489 Internship in Ethnic Studies, Upper Division
- HMONG 489 Internship in Hmong Studies, Upper Division

**Capstone, 3 cr.**

- ETHNIC 550 Capstone in Comparative Ethnic Studies

**Approved Electives**

**Africology**

- 100 Black Reality: Survey of African-American Society
- 102 Survey of African-American Literature
- 111 Introduction to African-American History to 1865
- 112 Introduction to African-American History, 1865 to the Present
- 121 Introduction to African-American Politics
- 125 Economics of the Black Community
- 163 African-American Concepts of Self
- 205 The Poetry of African, African-American, and Caribbean Writers
- 210 The African-American Novel
- 215 Introduction to Black Social and Cultural Traditions
- 235 African Americans and South Africa
- 250 Black Women and White Women in the Contemporary United States
- 261 Survey of African-American Political Philosophy
- 300 Urban Violence
- 312 The Church in African-American Life
- 314 The School in African-American Life
- 319 History of Blacks in the American City
- 320 Black Cultures in Latin America and the Caribbean
- 322 Order and Disorder: The Quest for Social Justice
- 334 (234) Survey of Black American and Black Brazilian Societies
- 341 Black Politics and City Government
- 344 Political Movements and Organizations in the Afroworld
- 350 The Black Family
- 351 Sex, Marriage, and Health Care in the Afroworld
- 369 Mass Media and Black Self-Images
- 372 African-American Literary Movements: The Harlem Renaissance
- 411 Change in African-American Communities
- 412 Blacks and the United States Constitution
- 414 The Black Woman in America, Africa, and the Caribbean
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<td>Peoples and Cultures of South Asia</td>
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Studies in World Literature Written in English: (Subtitled)
Studies in U.S. Latino/a Literature: (Subtitled)
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American Indian Literature, Culture, and Creative Arts
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Geography

Geography of Race in the United States
Nationalities and Nations of the World
Geography of Population
Gendered Geographies
Cultural Geography of Latin America

History

East Asian Civilization to 1600
East Asian Civilization Since 1600
Latin American Society and Culture
The Twentieth Century: A Global History
History of Capitalism
History of Race, Science, and Medicine in the United States
History of Women in American Society
Homosexuality in History
North American Indian History to 1887
North American Indian History Since 1887
The History of Latinos in the United States
History of the American West
Asian Americans in Historical Perspective
The 1960s in the United States: A Cultural History
The Blues: History and Culture
The Vietnam War
The Jews of Modern Europe: History and Culture
Germany: Hitler and the Nazi Dictatorship
The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45
Introduction to Jewish History
Buddhism: A Cultural History
Southeast Asia: The Age of Imperialism and Revolution Since 1800
North Africa from the Arab Conquest to the Present
Political Islam to Zionism: Middle Eastern Intellectual History, 1789-1990
Africa: The Age of Empires to 1880
Africa: Imperialism and Independence Since 1880
The History of Southern Africa
History of Mexico
History of Japan to 1600
History of Japan Since 1600
Ethnic America: To 1880
Immigrant America Since 1880
African Americans from Slavery to Freedom
African Americans Since the Civil War
The History of Poverty in America
History of the American City
The American Feminist Movement
Manhood in America
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The interdisciplinary major in religious studies draws on the resources of UWM faculty members with a teaching and research interest in religion. This program provides students with a broad humanistic background in religion and an opportunity to develop special concentrations in specific areas of interest. There is no sectarian program of instruction. Rather, faculty bring to their teaching the special academic characteristics of their own scholarly disciplines, and majors in the program draw upon a wide sample of those academic traditions. Thus, such subjects as the history and philosophy of religion and religion in art and literature are included in this program. Students choose from courses that consider religion in a wide array of cultural and historical concepts around the globe, including Buddhist, Christian, Classical Greek and Roman, Hindu, Islamic, Jewish, African, and American Indian.

Religious studies serves students seeking a broadly humanistic program, those who are pursuing a wide range of preprofessional education programs, those anticipating teaching careers at the secondary or higher educational level, and those who will undertake further study for the religious ministry.

Course of Study: Major

The religious studies major requires completion of at least 33 credits, including at least 18 in upper-division courses (numbered 300 and above) of which at least 15 must be taken in residence at UWM. In satisfying these requirements, students must select courses from at least three different curricular areas. The College requires that students attain at least a 2.5 GPA on all major credits attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. The required 33 credits must be distributed as follows:

I. CORE COURSES: (6-9 cr.)

A. Recommended: RELIGST 101 Introduction to World Religions

B. Required Methods Course: One of the following courses (or equivalent) is required:

   RELIGST 395 Seminar in the Study of Religion: Theories of Religion
   HIST 594 Methods and Theory in the Historical Study of Religion: (Subtitle)

C. Required Capstone Experience. All students must complete a research experience in their major. This requirement may be met by any one of the following options:

   1. HIST 600 Seminar in History: (Subtitle), with research conducted on a religion-related topic;
   2. For students with additional major(s), upper-level research seminar in the additional major that focuses on a religion-related topic;
   3. A 3-credit independent study on a religion-related topic;
   4. Senior thesis in another program/department on a religion-related topic;
   5. Research paper focused on religion-related topic as approved by the director.
In all cases, the religious studies director must approve the topic to satisfy the research requirement. Majors are required to file the appropriate research/capstone approval form prior to completion of their research/capstone course.

II. ELECTIVES (27 cr.)

A. All majors are required to complete at least 27 additional credits beyond the core courses. Nine elective credits must be distributed among three different religious traditions.* Twelve of these 27 credits must be numbered 300 or above. The list of approved electives is posted on the program’s website: www4.uwm.edu/letsci/religiousstudies/undergraduate.

B. Relevant language courses above the second semester will be counted as electives toward the Religious Studies major. Relevant languages depend on the student’s primary concentrations in religious studies but potentially include Arabic, Chinese, Japanese, Korean, Thai, Greek, Latin, Hebrew, German, Spanish, French, Italian, or other languages with approval of the director. Majors must file the appropriate forms with the director to receive approval for language courses.

* A religious tradition course must focus primarily [more than 50%] on one specific religion.

III. OPTIONAL CONCENTRATION
Religious Studies majors have the option of focusing their programs of studies on one or more religious traditions. To discuss this option, please contact the Program director.

Course of Study: Minor

The minor requires 18 credits in approved Religious Studies courses, including at least 9 upper-division (numbered 300 and above) credits taken in residence at UWM. Students must complete course work from at least two different curricular areas. In addition, the minor must include courses dealing with two different religious traditions. (RELIGST 101 may not be used in fulfilling this requirement.) The College requires that students earn at least a 2.50 GPA on all UWM courses attempted for the minor. A 2.50 GPA also is required on all minor credits attempted, including any transfer work.

Double Major

It often is possible to complete a double major in Religious Studies and another subject. This is the case particularly when a student already has undertaken the major in the other field but has credits in religion courses as well. The student often can take courses that count for both Religious Studies and the other major.

Courses
Religious Studies (RELIGST)
Digital Arts and Culture

Marc Tasman, Senior Lecturer in Journalism, Advertising, and Media Studies, Coordinator
BOL 570, (414) 229-2338, mtasman@uwm.edu

Kat Powers, Advisor, NWQ-B 5420, (414) 229-6686

The Certificate Program in Digital Arts and Culture prepares students to creatively produce digital art and media content, critically analyze work produced by others, and theoretically understand cultural interactions between digital technologies and society. The certificate combines courses in the arts, humanities, and social sciences.

The certificate program is open to all students seeking a bachelor’s degree from UWM, and to students who previously have received a bachelor’s degree from UWM or any other accredited college or university. Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor’s degree receive the certificate upon completion of the program requirements.

To obtain the certificate, students must complete a minimum of 24 credits from the following list of courses, with a GPA of 2.75 or above. At least 9 of these credits must be at the 300 level or above and the following requirements must be met. All courses are 3 credits unless otherwise noted.

**Required Courses – 12 cr. minimum must be selected from among the following eight courses:**

- ART 118 Digital Arts: Culture, Theory, Practice
- ARTHIST/ENGLISH 111 Entertainment Arts: Film, Television, and the Internet
- COMMUN 313 Human Communication and Technology
- ENGLISH 439 Document Design
- JAMS 101 Introduction to Mass Media
- JAMS 113 Internet Culture
- JAMS 336 Media Graphics
- L&I Sci 110 Introduction to Information Science

**Conceptual Courses – 6 cr. minimum**

- ANTHRO 340 Culture of Online Games and Virtual Worlds
- ART 309 Issues in Contemporary Art: (topics vary; subject to approval)
- ARTHIST/ENGLISH 111 Entertainment Arts: Film, Television, and the Internet (if not selected above)
- COMMUN 410 Organizational Communication Technology
- COMMUN 413 Rhetoric and the Internet
- COMMUN 440 Contemporary Problems in Freedom of Speech
- COMPLIT 133 Contemporary Imagination in Literature and the Arts
- COMPLIT 135 Experiencing Literature in the 21st Century
- COMPLIT 233 Literature and Film: (Subtitle)
- ENGLISH 253 Science Fiction: (Subtitle)
- ENGLISH 290 Introduction to Film Studies
- ENGLISH 291 Introduction to Television Studies
- ENGLISH 312 Topics in Film Studies: Science Fiction – “Utopia and Dystopia,” “Cinema and Digital Culture” subtitl
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>ENGLISH 329</td>
<td>Film and Literature</td>
</tr>
<tr>
<td>ENGLISH 380</td>
<td>Media and Society: (Subtitle)</td>
</tr>
<tr>
<td>ENGLISH 393</td>
<td>Cinema and Genre: (Subtitle)</td>
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<tr>
<td>ENGLISH 394</td>
<td>Theories of Mass Culture: (Subtitle)</td>
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<td>FILMSTD 290</td>
<td>Introduction to Film Studies</td>
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<tr>
<td>FILMSTD 291</td>
<td>Introduction to Television Studies</td>
</tr>
<tr>
<td>FILMSTD 312</td>
<td>Topics in Film Studies: “Cinema and Digital Culture”, “Science Fiction – Utopia and Dystopia” subtitles</td>
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<tr>
<td>FILMSTD 329</td>
<td>Film and Literature</td>
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<tr>
<td>FILMSTD 380</td>
<td>Media and Society: (Subtitle)</td>
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<td>FILMSTD 383</td>
<td>Cinema and Genre: (Subtitle)</td>
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<td>FILMSTD 394</td>
<td>Theories of Mass Culture</td>
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<tr>
<td>GLOBAL 202</td>
<td>Introduction to Global Studies III: Globalization and Technology</td>
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<tr>
<td>GLOBAL 500</td>
<td>Global Studies Capstone Seminar: “Global Communication” subtitle</td>
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<tr>
<td>JAMS 101</td>
<td>Introduction to Mass Media (if not selected above)</td>
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<tr>
<td>JAMS 113</td>
<td>Internet Culture (if not selected above)</td>
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<td>JAMS 260</td>
<td>Contemporary Non-fiction Media</td>
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<td>JAMS 262</td>
<td>Principles of Media Studies</td>
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<td>JAMS 360</td>
<td>History of Mass Media</td>
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<td>JAMS 361</td>
<td>Media Ethics</td>
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<td>JAMS 559</td>
<td>Law of Mass Communication</td>
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<td>JAMS 562</td>
<td>Media Studies and Culture</td>
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<tr>
<td>JMC 645</td>
<td>Health and the Media</td>
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<td>L&amp;I Sci 110</td>
<td>Introduction to Information Science (if not selected above)</td>
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<tr>
<td>L&amp;I Sci 120</td>
<td>Information Technology Ethics</td>
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<tr>
<td>L&amp;I Sci 310</td>
<td>Human Factors in Information Seeking and Use</td>
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<tr>
<td>L&amp;I Sci 675</td>
<td>Organizational Informatics</td>
</tr>
<tr>
<td>L&amp;I Sci 691</td>
<td>Special Topics in Information Science: &quot;Search Engine Society” subtitle</td>
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**Practicum Courses – 6 cr. minimum**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ART 118</td>
<td>Digital Arts: Culture, Theory, Practice (if not selected above)</td>
</tr>
<tr>
<td>ART 212</td>
<td>2D Design Strategies</td>
</tr>
<tr>
<td>ART 316</td>
<td>Interactive Installation &amp; Performance</td>
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<tr>
<td>ART 318</td>
<td>Physical Computing</td>
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<td>ART 324</td>
<td>Web Design</td>
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<td>ART 325</td>
<td>Multimedia Design Workshop</td>
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<tr>
<td>ART 326</td>
<td>Video and Audio Strategies for Artists and Designers</td>
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<tr>
<td>ART 327</td>
<td>Digital Media Workshop</td>
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<tr>
<td>ART 393</td>
<td>Digital Printmaking I</td>
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<tr>
<td>ENGLISH 202</td>
<td>Writing in the Humanities</td>
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<td>ENGLISH 214</td>
<td>Writing in the Professions</td>
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<tr>
<td>ENGLISH 431</td>
<td>Topics in Advanced Writing: (Subtitle)</td>
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<tr>
<td>ENGLISH 435</td>
<td>Professional and Technical Writing</td>
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<tr>
<td>ENGLISH 436</td>
<td>Writing for Information Technology</td>
</tr>
<tr>
<td>ENGLISH 439</td>
<td>Document Design (if not selected above)</td>
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<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Basic Elements of Video</td>
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<tr>
<td>FILM 255</td>
<td>Introduction to Digital Arts</td>
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<tr>
<td>FILM 302</td>
<td>Video in the Classroom</td>
</tr>
<tr>
<td>FINEART 313</td>
<td>Programming for Artists</td>
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<tr>
<td>GEOG 215</td>
<td>Introduction to Geographic Information Science</td>
</tr>
<tr>
<td>GEOG 525</td>
<td>Geographic Information Science</td>
</tr>
<tr>
<td>JAMS 204</td>
<td>Integrated Reporting for Journalism and Documentary</td>
</tr>
<tr>
<td>JAMS 231</td>
<td>Publication Design</td>
</tr>
</tbody>
</table>
JAMS 332 Introduction to Digital Documentary
JAMS 336 Media Graphics (if not selected above)
JAMS 356 Media Literacy
JAMS 380 Special Topics in Journalism, Advertising, and Media Studies: “Digital Storytelling” subtitle
JAMS 399 On-Campus Internship
L&I Sci 240 Information Architecture I
L&I Sci 430 Multimedia Application Development
L&I Sci 491 Advanced Topics in Information Science & Technology: “Flash” subtitle
L&I Sci 685 Electronic Publishing and Web Design
MUSIC 327 Analog and Digital Synthesis I
MUSIC 328 Digital Synthesis and Systems II
MUSIC 680 Special Studies in Music: "Interactivity and Improvisation" subtitle
THEATRE 357 Digital Audio Workstations for Stage and Studio
THEATRE 437 (317) Sound Design and Technology
Independent study with any DAC faculty member

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Committee.
French and Francophone Studies

Faculty Coordinators:
Sarah Davies Cordova, Professor of French Department of French, Italian & Comp. Lit.
Michelle Bolduc, Associate Professor of French, Department of French, Italian & Comp. Lit.
Christine Wolf, Advisor (Last names A-L), Garland Hall 111, (414) 229-6925, cawolf@uwm.edu
Aparna Datey, Advisor (Last names M-Z), Garland Hall 113, (414) 229-3042, datey@uwm.edu

The Certificate Program in French and Francophone Studies encourages participation in UWM’s foreign study programs in France (Paris, Amboise, La Rochelle, among others) and Canada (Montreal and Quebec) and fosters interaction with students from French-speaking countries enrolled in UWM programs.

The certificate program is open to all students seeking a bachelor’s degree from UWM, to students who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

Students must achieve a grade point average of 2.75 or higher in the courses that satisfy the program requirements, and all such courses must be graded. They cannot be taken on a credit/no credit basis.

Certificate students who are majoring or minoring in French must take at least 9 credits outside the French curricular area.

Credits earned at other institutions in equivalent FFS courses will be accepted in partial fulfillment of the requirements. Students must obtain the approval of the certificate program committee to apply more than 9 credits from courses at other institutions to the UWM program.

Students currently enrolled at UWM who fulfilled some of the program’s requirements prior to its approval may have their credits applied retroactively toward the certificate.

To obtain a certificate in FFS with language proficiency, students must complete, as part of or in addition to the certificate requirements, 9 credits in language, literature, or culture courses taught in French and numbered 300 or above.

Students enrolled in the program must complete at least 18 credits from the list of courses (see below) approved for the certificate, including:

I. 3 credits in a French language course numbered 200 or above;

II. 3 additional credits in humanities;

III. 6 credits in social sciences;
IV. 6 credits in courses dealing with Europe;

V. 6 credits in courses dealing with Francophone areas outside of Europe;

VI. Of the courses taken to complete these requirements, 9 credits must be in courses numbered 300 or above.

Exit Survey
All students are required to complete an exit survey upon completion of their required coursework. The assessment process allows certificate students to reflect on their experiences while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

Please note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

Approved Courses
The following courses are approved to satisfy requirements for the French and Francophone Studies Certificate. The Roman numerals within the parentheses following each course title indicate the requirement(s), I through VI, for which the course counts. See the program coordinator for the most current list.

AFRICOL 418 Race, Class, and Gender in the Caribbean (III, V), 3 cr.
ANTHRO 213 American Indian Peoples of Wisconsin (III, V), 3 cr.
ARTHIST 340 Baroque Art in Italy, France, and Spain (III, V), 3 cr.
ARTHIST 444 The Arts of France in the Seventeenth Century (III, V), 3 cr.
ARTHIST 465 Dada and Surrealist Art (III, IV), 3 cr.
FRENCH 145 Views of France: (Subtitled) (II), 3 cr.
FRENCH 203 Third-Semester French (I, II), 3 cr.
FRENCH 204 Fourth-Semester French (I, II), 3 cr.
FRENCH 210 French Immersion: Intermediate (I, II), 3 cr.
FRENCH 289 Internship in French (II, V), 1-6 cr.
FRENCH 290 Intermediate French Electives: (Subtitled) (II, V), 3-12 cr.
FRENCH 299 Ad Hoc: (with appropriate subtitle) (II, V), 1-6 cr.
FRENCH 303 (215) Conversation and Composition: Intermediate Level (I), 3 cr.
FRENCH 310 Contemporary French Usage (I), 1-2 cr.
FRENCH 311 French for International Business/Professional Communication: Oral Emphasis (I), 3 cr.
FRENCH 324 (327) Contemporary French Language and Culture (I, V), 3 cr.
FRENCH 325 Intensive Grammar and Usage (I), 3 cr.
FRENCH 332 (322) Approaches to Poetry and Fiction (II, V), 3 cr.
FRENCH 349 Studies in French Culture: (Subtitled) (II, V), 2-4 cr.
FRENCH 357 Literature of the French-Speaking World in Translation: (Subtitled) (II, V), 3 cr.
FRENCH 361 French for International Business/Professional Communication: Writing Focus (II), 3 cr.
FRENCH 392 Phonetics (I, II), 3 cr.
FRENCH 415 Introduction to Translation: Non-Specialized French to English (V), 3 cr.
FRENCH 427 Advanced Written Expression (I, II), 3 cr.
FRENCH 428 Castles, Cathedrals, and Common People: The Foundation of French Culture (II), 3 cr.
FRENCH 430 Reaction and Innovation: French Culture of the 19th and 20th Centuries (II), 3 cr.
FRENCH 431 Seminar in Literature of the Francophone World: (Subtitled) (II, V), 3 cr.
FRENCH 432 Seminar in French and Francophone Culture: (Subtitled) (II, V), 3 cr.
FRENCH 433 Seminar in French Literature: (Subtitled) (II, V), 3 cr.
FRENCH 449  Studies in French Culture: (Subtitled) (II, V), 2-4 cr.
FRENCH 450  Institutions and Culture of Contemporary France (II), 3 cr.
FRENCH 457  Topics in French and Francophone Studies in Translation: (Subtitled) (II, V), 3 cr.
FRENCH 465  Introduction to Translation: English to French (II, V), 3 cr.
FRENCH 489  Internship in French (II, V), 1-6 cr.
FRENCH 499  Ad Hoc: (with appropriate subtitle) (II, V), 1-6 cr.
FRENCH 510  Seminar on Masterpieces of Literature Written in French: (Subtitled) (II, V), 3 cr.
HIST 205  Europe from the Italian Renaissance to the French Revolution (III, IV), 3 cr.
HIST 242  Women and Gender in Europe: 1750 to the Present (III, IV), 3 cr.
HIST 355  Modern and Contemporary France (III, IV), 3 cr.
HIST 382  Southeast Asia: The Age of Imperialism and Revolution Since 1800 (III, V), 3 cr.
HIST 386  Africa: The Age of Empires to 1880 (III, V), 3 cr.
HIST 387  Africa: Imperialism and Independence Since 1880 (III, V), 3 cr.
HIST 398 (501)  Honors Seminar: (with appropriate subtitle) (III, IV, V), 3 cr.
HONORS 200  Honors Seminar: (with appropriate subtitle) (II, III, IV, V), 3 cr.
PHILOS 432  History of Modern Philosophy (II, IV), 3 cr.
PHILOS 435  Existentialism (II, IV), 3 cr.
POL SCI 300  Western Europe Politics (III, IV), 3 cr.
POL SCI 327  Politics of the Middle East and North Africa (III, V), 3 cr.
POL SCI 339  European Integration (III, IV), 3 cr.
TRNSLTN 415  Introduction to Non-Specialized French to English Translation (II, V), 3 cr.

Web Home Pages:
[ College of Letters & Science ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
French and Francophone Studies
[ College of Letters & Science ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]
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Film Studies

- Course of Study: Major
- Honors in the Major
- Course of Study: Minor
- Courses
- Faculty

Gilberto Blasini, Associate Professor of English, Director
Benjamin Schneider, Senior Lecturer in English, Assistant Director, and Undergraduate Advisor

The College of Letters & Science offers a unique major and minor in Film Studies. This interdisciplinary program is founded on a broad, international perspective on film, popular culture, and media forms, texts, and global industries.

After completing the required introductory courses in history, formal analysis, and theory, film studies majors and minors explore a variety of advanced topics including world cinema, the internet and media culture, theories of mass culture, film and literature, writing on film and television, classical and contemporary film theory, television criticism and theory, film genres and other special topic courses to suit their interests and concentrations. In addition to courses stressing cultural, historical, and theoretical approaches, students can take advantage of a range of resources and opportunities to explore and deepen their understanding of contemporary and historically significant film and media, and take part in major festivals and symposia, most recently devoted to contemporary Asian cinema, Latin American and Caribbean film and culture, and global media and technology.

The major in film studies provides students with critical skills and multiple perspectives on historical and contemporary media forms. It promotes the study of film and media in their aesthetic, social, cultural, political, and technological contexts and expands students' understanding of media as essential elements of our global cultural environment.

Course of Study: Major

A total of 39 credits is required for the major, at least 15 in upper-level courses (numbered 300 or above) taken in residence at UWM. Students must attain a 2.5 GPA on all UWM credits attempted for the major. In addition, the College requires that students attain a 2.5 GPA on all major credits attempted, including any transfer work. Students must complete the requirements specified below.

Core Courses (12 cr.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ARTHIST/FILMSTD 205</td>
<td>History of Film I: Development of an Art</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 290</td>
<td>Introduction to Film Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGLISH/FILMSTD 390</td>
<td>Classical Film Criticism and Theory (offered fall semester only)</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD 590</td>
<td>Contemporary Film Criticism and Theory (satisfies L&amp;S research requirement; offered spring semester only)</td>
<td>3</td>
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</table>

Four courses (12 cr.) selected from the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ARTHIST/FILMSTD 206</td>
<td>History of Film II: Development of an Art</td>
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<tr>
<td>COMPLIT 233</td>
<td>Literature and Film: (Subtitle)</td>
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<td>ENGLISH/FILMSTD 286</td>
<td>Writing About Film and Television</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 291</td>
<td>Introduction to Television Studies (if not selected above)</td>
<td>3</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
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</tr>
<tr>
<td>ENGLISH/FILMSTD 293</td>
<td>Literature and Media: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 295</td>
<td>Women and Film</td>
<td>3</td>
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<tr>
<td>FILM 201</td>
<td>Introduction to Experimental Media Arts</td>
<td>3</td>
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<tr>
<td>FILM 202</td>
<td>Current Topics in Media Arts Prediction: (Subtitle)</td>
<td>3</td>
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<td>FILM 203</td>
<td>Media Workshop: (Subtitle) (if not selected above)</td>
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<tr>
<td>FILM 220</td>
<td>Basic Elements of Filmmaking I (if not selected above)</td>
<td>3</td>
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<tr>
<td>FILM 221</td>
<td>Basic Elements of Filmmaking II (if not selected above)</td>
<td>3</td>
</tr>
<tr>
<td>FILM 222</td>
<td>Basic Elements of Video (if not selected above)</td>
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<tr>
<td>FILMSTD 212</td>
<td>Intermediate Topics in Film Studies: (Subtitle)</td>
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<tr>
<td>FILMSTD 299</td>
<td>Ad Hoc: (Subtitle)</td>
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<tr>
<td>ITALIAN 229</td>
<td>Italian Cinema</td>
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<tr>
<td>JAMS 260</td>
<td>Contemporary Non-Fiction Media</td>
<td>3</td>
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</tbody>
</table>

A maximum of 3 credits in Film Department courses (FILM) may count toward the intermediate-level course requirement.

**Advanced-Level (300 and above) Electives (15 cr.):** Five courses (minimum 15 cr.) from the approved list. At least 6 cr. must be selected from courses focusing on world/global/international cinema, selected from ENGLISH 316, FILMSTD 412, or other appropriate courses approved by the coordinator. The following is a partial list. Other variable content courses with appropriate subtitles may be approved on a semester-by-semester basis to count toward the major. See the list published in the *Schedule of Classes* under affiliated Film Studies courses, the Film Studies website, or the program advisor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>ARTHIST/FILMSTD 305</td>
<td>Film Analysis I: Method and Theory</td>
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<tr>
<td>ARTHIST/FILMSTD 306</td>
<td>Film Analysis II: Method and Theory</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST/FILMSTD 307</td>
<td>Film Directors: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ARTHIST/FILMSTD 308</td>
<td>Film Styles: (Subtitle)</td>
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<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: &quot;New Chinese Cinemas&quot;</td>
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<td>COMPLIT 461</td>
<td>Film-Fiction Interaction: (Subtitle)</td>
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<td>ENGLISH/FILMSTD 312</td>
<td>Topics in Film Studies: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 316</td>
<td>World Cinema: (Subtitle)</td>
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<tr>
<td>ENGLISH/FILMSTD 320</td>
<td>Studies in Film Authorship: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 329</td>
<td>Film and Literature</td>
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<tr>
<td>ENGLISH/FILMSTD 330</td>
<td>Film and Drama: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 380</td>
<td>Media and Society: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 383</td>
<td>Cinema and Genre: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 391</td>
<td>Television Criticism and Theory</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 392</td>
<td>Contemporary Film Criticism and Theory: (Subtitle)</td>
<td>3</td>
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<td>ENGLISH/FILMSTD 394</td>
<td>Theories of Mass Culture: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ENGLISH/FILMSTD 395</td>
<td>Feminist Film Criticism and Theory: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>FILMSTD/JEWISH 350</td>
<td>Global Jewish Film and Television: (Subtitle)</td>
<td>3</td>
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<tr>
<td>FILMSTD 412</td>
<td>Global Cinemas - Cinematic Practices in the Context of Globalization: (Subtitle)</td>
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<td>FILMSTD 489</td>
<td>Upper-Level Internship</td>
<td>1-6</td>
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<tr>
<td>FILMSTD 499</td>
<td>Ad Hoc: (Subtitle)</td>
<td>1-6</td>
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<tr>
<td>FILMSTD 669</td>
<td>Screening Sexuality: (Subtitle)</td>
<td>3</td>
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<tr>
<td>FILMSTD 699</td>
<td>Advanced Independent Study</td>
<td>1-6</td>
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<tr>
<td>FRENCH 451</td>
<td>Cinema of the French-Speaking World: (Subtitle)</td>
<td>3</td>
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<tr>
<td>GERMAN 311</td>
<td>History of German Film: (Subtitle)</td>
<td>3</td>
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<tr>
<td>ITALIAN 629</td>
<td>Major Film Directors: (Subtitle)</td>
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<td>JAMS 560</td>
<td>History of Mass Media</td>
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<tr>
<td>JAMS 562</td>
<td>Media Studies and Culture</td>
<td>3</td>
</tr>
<tr>
<td>JAMS 620</td>
<td>Global Media Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

**Honors in the Major**
Film Studies majors who have maintained at least a 3.60 GPA in courses for the major, a 3.50 GPA on all advanced (300-level and above) courses in the major, and a 3.00 GPA overall may apply to the Film Studies undergraduate advisor to graduate with "Honors in the Major."

Course of Study: Minor

The minor in film studies is open to all students in any UWM undergraduate degree program. To complete the minor, students are required to take 18 credits of Film Studies Program approved courses. Nine credits must be taken at the intermediate (200-299) level and must include ENGLISH 290, Introduction to Film Studies, and either ARTHIST 205, History of Film I: Development of an Art, or ARTHIST 206, History of Film II: Development of an Art. The other intermediate course must be selected from the list below. The remaining credits must be selected from advanced-level (300 and above) courses on the approved electives list. Students must attain a 2.5 GPA in UWM credits attempted for the minor. In addition, the College requires that students attain a 2.5 GPA in all minor credits attempted, including any transfer work.

Courses (FILMSTD)

Film studies and media courses are offered by the following departments in the College of Letters & Science:

Art History

English

Foreign Languages and Linguistics

French, Italian, and Comparative Literature

Journalism, Advertising, and Media Studies

Elective film production courses are offered by the Peck School of the Arts Film Department.

Film Studies Courses

111 Entertainment Arts: Film, Television, and the Internet. 3 cr. U. History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form. ARTHIST 111, ENGLISH 111, & FILMSTD 111 are jointly offered; they count as repeats of one another. pereq: none.

151 Film Art. 3 cr. U. A general introduction to film art and criticism, the course will proceed according to a classic model - film elements, to style, form, theme and finally evaluation. The selected films will be representative of various currents of film art, both narrative and avant-garde. ARTHIST 151 & FimStd 151 are jointly offered; they count as repeats of one another. Pereq: none.

192 First-Year Seminar: (Subtitle). 3 cr, U. The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

205 History of Film I: Development of an Art. 3 cr. U. The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists. ARTHIST 205 & FILMSTD 205 are jointly offered; they count as repeats of one another. Prereq: none.

206 History of Film II: Development of an Art. 3 cr. U. The technology, style, history and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists. ARTHIST 206 & FILMSTD 206 are jointly offered; they count as repeats of one another. Prereq: none.

212 Intermediate Topics in Film Studies: (Subtitle). 3 cr, U. Stylistic, generic, historical, or theoretical issues in film
studies. Retakable w/chg in topic to 9 cr max. Prereq: ARTHIST 205(P) or 206(P) or ENGLISH 290(P).

286 Writing about Film and Television. 3 cr. U. Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives. ENGLISH 286 & FILMSTD 286 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in ENGLISH 102(P) or score at level 4 on EPT.

290 Introduction to Film Studies. 3 cr. U. Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking. ENGLISH 290 & FILMSTD 290 are jointly offered; they count as repeats of one another. Prereq: none.

292 Classic Dramas in Film: (Subtitle). U. A sampling of great plays in film versions, with performances by acclaimed actors. Offered on a cr/no cr basis. Retakable w/chg in topic to 3 cr. max. ENGLISH 292 & FILMSTD 292 are jointly offered; they count as repeats of one another. Prereq: none.

293 Literature and Media: (Subtitle). 3 cr. U. A study of novels, essays, magazines, newspapers, advertisements, and films in order to disclose similarities and differences in their use of rhetorical strategies. Retakable w/chg in topic to 9 cr max. ENGLISH 293 & FILMSTD 293 are jointly offered; they count as repeats of one another. Prereq: soph st.

295 Women and Film. 3 cr. U. A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture. ENGLISH 295 & FILMSTD 295 are jointly offered; they count as repeats of one another. Prereq: soph st.

297 Study Abroad. 1-12 cr. U. Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Program.

299 Ad Hoc: (Subtitle). 1-6 cr, U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none, except as required for specific topic.

305 Film Analysis I: Method and Theory, 3 cr, U/G. Film language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists. ARTHIST 305 & FILMSTD 305 are jointly offered; they count as repeats of one another. Perek: jr st.

306 Film Analysis II: Method and Theory, 3 cr, U/G. Film language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists. ARTHIST 306 & FILMSTD 306 are jointly offered; they count as repeats of one another. Perek: jr st.

307 Film Directors: (Subtitle). 3 cr. U/G. Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences of artists' work. Retakable w/chg in topic to 9 cr max. ARTHIST 307 and FILMSTD 307 language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists. ARTHIST 305 & FILMSTD 305 are jointly offered; they count as repeats of one another. Perek: jr st; ARTHIST 205 (R) or 305 (R).

308 Film Styles: (Subtitle). 3 cr. U/G. A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios. Retakable w/chg in topic to 9 cr max. ARTHIST 308 & FILMSTD 308 are jointly offered; they count as repeats of one another. Perek: jr st.

312 Topics in Film Studies: (Subtitle). 3 cr. U. Study of stylistic, generic, historical, or theoretical issues in film studies. Retakable w/chg in topic to 9 cr max. ENGLISH 312 & FILMSTD 312 are jointly offered; they count as repeats of one another. Perek; jr st; satisfaction of GER English Composition competency req; ENGLISH 290 (P).
316 World Cinema: (Subtitle). 3 cr. U. National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms. Retakable w/chg in topic to 9 cr max. ENGLISH 316 & FILMSTD 316 are jointly offered; they count as repeats of one another. Prereq: jr st or ENGLISH 290 (P); satisfaction of GER English composition competency req.

320 Studies in Film Authorship: (Subtitle). 3 cr. U. The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star. Retakable w/chg in topic to 9 cr max. ENGLISH 320 & FILMSTD 320 are jointly offered; they count as repeats of one another. Prereq: jr st or ENGLISH 290 (P); satisfaction of GER English composition competency req.

329 Film and Literature. 3 cr. U/G. Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode. ENGLISH 329 & FILMSTD 329 are jointly offered; they count as repeats of one another. Prereq: jr st; ENGLISH 290 (P); satisfaction of GER English Composition competency req.

330 Film and Drama: (Subtitle). 3 cr. U. Capabilities and limitations of narrative film and drama, emphasizing the distinctiveness of each artistic mode. ENGLISH 330 & FILMSTD 330 are jointly offered; they count as repeats of one another. Prereq: jr st; ENGLISH 290 (P); satisfaction of GER English Composition competency req.

299 Ad Hoc: (Subtitle). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one additional sem. Retakable w/chg in topic. Prereq: none, except as required for specific topic.

350 Global Jewish Film and Television: (Subtitle). 3 cr, U. Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism. FILMSTD & Jewish 350 are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

380 Media and Society: (Subtitle). 3 cr. U/G. An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary. Retakable w/chg in topic to 9 cr max. ENGLISH 380 & FILMSTD 380 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; ENGLISH 290 (P) or 291 (P) or 6 cr in courses approved for hum breadth cr.

383 Cinema and Genre: (Subtitle). 3 cr. U/G. Stylistic and thematic analyses of literary and film genres (e.g. melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre. Retakable w/chg in topic to 9 cr max. ENGLISH 383 & FILMSTD 393 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; ENGLISH 290 (P) or 6 cr in courses approved for hum breadth cr.

390 Classical Film Criticism and Theory. 3 cr. U/G. Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing. ENGLISH 390 & FILMSTD 390 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req. ENGLISH 290 (P), & ARTHIST 205 (P); or cons instr.

391 Television Criticism and Theory. 3 cr. U/G. Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts. ENGLISH 391 & FILMSTD 391 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; ENGLISH 291 (P) or cons instr.

392 Contemporary Film Criticism and Theory: (Subtitle). 3 cr. U/G. Current issues in film criticism and theory and an exploration of critical perspectives (psychoanalysis, feminism, structuralism, post-structuralism) informing recent debates in film studies. Retakable w/chg in topic to 9 cr max. ENGLISH 392 & FILMSTD 392 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; ENGLISH 290 (P) or 291 (P) or cons instr.

394 Theories of Mass Culture: (Subtitle). 3 cr. U/G. A survey of theories of mass culture relative to film from the
later 19th century to the present. Retakable w/chg in topic to 9 cr max. ENGLISH 394 & FILMSTD 394 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; ENGLISH 290 (P) or 291 (P) or cons instr.

395 Feminist Film Criticism and Theory: (Subtitle). 3 cr. U/G. Theories of representation and spectatorship that focus on the position of women in film, television, and/or video. Retakable w/chg in topic to 9 cr max. ENGLISH 395 & FILMSTD 395 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; ENGLISH 295 (P) or cons instr.


489 Internship in Film Studies, Upper Division. 1-6 cr. U. Application of advanced principles of film studies in a business, organizational, educational, political, or other appropriate setting. One cr earned for 40 hrs work. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Film Studies; 2.25 GPA; cons supervising faculty member.

497 Study Abroad. 1-12 cr. U. Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Program.

499 Ad Hoc: (Subtitle). 1-6 cr, U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w'chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

590 Seminar in Contemporary Film Theory. 3 cr. U. Contemporary theories and criticism of cinema, from 1960 to the present. Theoretical approaches considered may include structuralism, semiotics, psychoanalysis, cultural studies, feminism, post-structuralism, queer theory. Prereq: sr st; ENGLISH 390 (P).

669 Screening Sexuality: (Subtitle) Relationship between discourses of sexuality and media artifacts/texts. Historical/theoretical approaches to apprehend construction and representation of sexuality/sexual identities in media. Retakable w/chg in topic to 9 cr max. Repeat of ENGLISH 312 w/same topic. Prereq: jr st.

699 Independent Work. 1-3 cr, U. For more information consult coordinator. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.

Faculty

Gilberto Blasini, Assoc. Prof., PhD, English, Director
University of California, Los Angeles

Elena Gorfinkel, Asst. Prof., PhD, Art History
New York University

Andrew Martin, Assoc. Prof., PhD, English
University of Iowa

Tasha Oren, Assoc. Prof., PhD, English
University of Wisconsin-Madison

Peter Paik, Assoc Prof., PhD, Comparative Literature
Cornell University

Patrice Petro, Prof., PhD, English
The College of Letters & Science cooperates with the College of Health Sciences to offer an undergraduate certificate in Food Studies. The certificate is designed to help students become proficient at:

1. Investigating and analyzing food systems and practices in a variety of cultural, social, and geographical settings;
2. Presenting their critical reflections on the forces that surround these systems and practices in both written and oral form;
3. Using information (statistical, textual, first-hand accounts, etc.) as a basis for formulating plans for personally and socially responsible action pertinent to local and global food and health; and
4. Becoming active in the community by participating in activities that develop responsible and sustainable practices, promote cross-cultural understanding, and help people in disparate professions or academic fields understand the relationships the study of food has with their own specializations.

The program is administered by an advisory committee composed of faculty members from both the College of Letters & Science and the College of Health Sciences. For additional information, see the Food Studies Certificate description in the Inter-School/College Programs section of this catalog.

COURSES
The College of Letters & Science, through the Departments of Anthropology and Chemistry & Biochemistry, cooperates with the College of Health Sciences Clinical Laboratory Sciences Program and the Helen Bader School of Social Welfare Criminal Justice Program to offer studies in forensic sciences. The following three certificates are available:

1. Certificate in Death Investigation
2. Certificate in Forensic Sciences
3. Certificate in Forensic Toxicology

For additional information, see the Forensic Sciences Certificate Program description in the Inter-School/College Programs section of this catalog.

**Forensic Toxicology**

See Forensic Sciences.
Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies

Cary Gabriel Costello, Associate Professor, Sociology, BOL 738, (414) 229-6942, Costello@uwm.edu

Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies investigates the historical and contemporary experiences of people traditionally neglected in scholarship and courses. It explores questions about sexuality as well as identity, community, representation, diversity, assimilation, and discrimination that are both academically and socially significant. Work in this innovative field includes material and methods from many disciplines: English and foreign languages, health professions, anthropology, art history, biology, communications, economics, fine arts, history, music, nursing, political science, psychology, sociology, social welfare, and women’s studies.

The LGBT Studies Certificate Program provides a curricular structure for undergraduates interested in the interdisciplinary study of same-sex relations, gender identity and expressions, and shifts in meaning assigned to sex, gender, and sexuality more generally, in past and present cultures. It is designed for students majoring in any field who wish to complement their study of a discipline with an additional concentration in lesbian, gay, bisexual, and transgender studies. Any student in good standing at the University of Wisconsin-Milwaukee who is seeking a bachelor's degree or who previously received a bachelor’s degree from UWM or any other accredited college or university is eligible to participate in the certificate program. The program also is open to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular university admission requirements.

The LGBT Studies Certificate requires completion of 18 credits in approved courses, with a minimum GPA of 2.5, as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGBT 200</td>
<td>Introduction to LGBT Studies</td>
<td>3</td>
</tr>
<tr>
<td>WMNS 301</td>
<td>Queer Theory</td>
<td>3</td>
</tr>
<tr>
<td>LGBT 599</td>
<td>Selected Topics in LGBT Studies: (Subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives: 9 credits of approved LGBT Studies curricular area or cross-listed coursework, of which 3 credits must be in courses numbered 300 or above.

Students are limited to a maximum of 6 credits in independent study and no more than 9 credits from any one department. At least half the credits must be taken in residence at UWM, and no courses may be taken on a credit/no credit basis.

Credits earned at other institutions in equivalent LGBT courses, as well as credits earned and approved through study abroad, are accepted in partial fulfillment of the requirements. Students must obtain the approval of the certificate program committee to apply more than nine credits from courses at other institutions to the program requirements.

Numerous courses in a wide variety of disciplines have been approved for cross-listing with the LGBT Studies Certificate Program. For information about courses that will count for LGBT credit, please contact the program coordinator.

Courses
The College of Letters & Science, together with several of UWM's professional schools, offers a Bachelor of Arts in Global Studies. This degree is designed to combine the acquisition of leadership, management, and communication skills with an in-depth understanding of global issues. Students in this program will be uniquely prepared for careers in an increasingly integrated world. The program is administered through the Center for International Education.

For additional information on the Global Studies degree, see the [Global Studies Degree Program](#) description in the [Inter-School/College Programs](#) section of this catalog.

The College of Letters & Science offers a minor in Global Studies.

**Course of Study: Minor in Global Studies**

The Global Studies Minor consists of at least 18 credits, distributed as follows:

**Global Studies Core Courses**

*6 credits from the following course list are required. It is recommended that the core coursework be completed prior to Global Content coursework.*

GLOBAL 101 Introduction to Global Studies I: People and Politics (SS)
GLOBAL 201 Introduction to Global Studies II: Economics and the Environment (SS)
GLOBAL 202 Introduction to Global Studies III: Globalization and Information Technology (SS)

**Foreign Language**

*At least four university-level semesters of a single foreign language are required. Retrocredits may be used to fulfill this requirement. (Note that a placement test must be taken and at least one 3-credit, university-level foreign language course must be completed successfully in order to earn retrocredits, according to foreign language departmental requirements.)*

**Study Abroad**

*At least 3 credits of an overseas academic experience, or an internship outside of the U.S. approved by a Global Studies advisor, are required.*

**Global Content Electives**

*6 credits are required, chosen from the electives list below.*

**Distribution of Credits**

*A minimum of 9 credits for the minor must be taken at the 300 level or above. These credits can include foreign language or additional study abroad coursework. At least 9 credits must be completed in residence at UWM. Credits earned in a UWM study abroad or exchange program count toward this requirement. No more than 9 credits from another major, minor, or certificate program may be counted toward the Global Studies minor.*

**Graduation Requirements**

*The College requires that students achieve at least a 2.5 cumulative GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.5 GPA on all minor credits attempted, including transfer work.*

**Approved Global Content Electives**

*Additional electives may be approved by a Global Studies advisor.*
AFRICOL 232 Survey of African Societies and Cultures
AFRICOL 311 African Religious Thought and Social Organizations
AFRICOL 320 Black Cultures in Latin America and the Caribbean
AFRICOL 329 Problems and Prospects of U.S./Africa Economic Relations
AFRICOL 565 Selected Texts/Topics in Africology: (with appropriate subtitle)

AIS 362 System Failure: Globalization and Language Extinction (jointly offered with Anthro & Global)

Anthro 250 Women's Roles in Cross-Cultural Perspective
ANTHRO 3xx "Peoples and Cultures" series
ANTHRO 349 Seminar in Ethnography and Cultural Processes
ANTHRO 355 Globalization, Culture, and the Environment
ANTHRO 362 System Failure: Globalization and Language Extinction (jointly offered with AIS & Global)
ANTHRO 443 Medicine and Pharmaceuticals in the Global Age (jointly offered with Global)
ANTHRO 543 Cross-Cultural Study of Religion

COMMUN 350 Intercultural Communication
COMMUN 450 Advanced Intercultural Communication
COMMUN 550 International and Global Communication
COMMUN 631 Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)
COMMUN 655 Cultural Training and Adjustment
COMMUN 675 Communication in International Mediation and Peacebuilding

CES 210 Introduction to Conservation and Environmental Science

COMPLIT 230 Literature and Society: (with appropriate subtitle)
COMPLIT 360 Seminar in Literature and Cultural Experience: (with appropriate subtitle)

CRM JST 291 Current Issues in Criminal Justice: “International Terrorism” subtitle

ECON 256 Emerging Markets and Comparative Systems
ECON 351 Introduction to International Economic Relations
ECON 353 Economic Development
ECON 454 International Trade
ECON 455 International Finance

ENGLISH 316 World Cinema: (Subtitle)

ETHNIC 250 Selected Topics in Ethnic Studies (with appropriate subtitle)

FILMSTD 350 Global Jewish Film and Television: (Subtitle) (jointly offered with Jewish)
FILMSTD 412 Global Cinemas – Cinematic Practices in the Context of Globalization: (Subtitle)

FRENCH 421 Undergraduate Seminar in French Studies (with appropriate subtitle)
FRENCH 426 Growing Up French
FRENCH 432 Seminar in French and Francophone Cultures (with appropriate subtitle)
FRENCH 450 Institutions and Cultures of Contemporary France

GEOG 213 Geography of Asia
GEOG 225 The Language of Maps
GEOG 350 Conservation of Natural Resources
GEOG 464 Environmental Problems
GEOG 213 Geography of Asia
GEOG 309 Nationalities and Nations of the World
GEOG 330 Europe: East and West
GEOG 400 Geography of Population
GEOG 462 Cultural Geography of Latin America
GEOG 464 Environmental Problems
GEOG 470 Geography of South Asia
GEOG 540 Globalization and the City

GERMAN 334 Introduction to German Literature and Culture
GERMAN 391 German Literature/Culture in Relation to Social and Historical Issues (with appropriate subtitle)
GERMAN 410 German Cultural History
GERMAN 411 Modern-Day Germany
GERMAN 415 Topics in German Civilization (with appropriate subtitle)

GLOBAL 311 Contexts for Global Management
GLOBAL 321 The Global City in History
GLOBAL 351 Language, Media, and Social Practice
GLOBAL 362 System Failure: Globalization and Language Extinction (jointly offered with AIS & Anthro)
GLOBAL 371 Rethinking Global Security
GLOBAL 421 Social Justice in the Global City
GLOBAL 443 Medicine and Pharmaceuticals in the Global Age (jointly offered with Anthro)
GLOBAL 447 The Global Politics of Human Rights
GLOBAL 448 Intellectual Property in the Global Information Economy
GLOBAL 451 Access, Security, and Intercultural Contexts in Global Communication
GLOBAL 471 Strategies for Realizing Security
GLOBAL 541(411) Cross-Cultural Management
GLOBAL 551 Global Communications Capstone: Future Trends
GLOBAL 571 Global Security Capstone: Future Trends
GLOBAL 699 Independent Study (1-3 cr.)*

* With approval of Global Studies advisor.

HEBR ST 254 Studies in Hebrew Culture (with appropriate subtitle)

HIST 282 The Modern Middle East in the Nineteenth and Twentieth Centuries
HIST 283 Arab-Israeli Relations: The Search for Peace
HIST 287 The Vietnam War
HIST 345 The Modern Balkans: Nationalism, War, and Democracy
HIST 372 Topics in Global History (with appropriate subtitle)
HIST 378 Revolution in China
HIST 382 Southeast Asia: The Age of Imperialism and Revolution Since 1800
HIST 392 The History of Southern Africa
HIST 393 History of Mexico
HIST 395 History of Japan Since 1600
HIST 434 The United States as a World Power in the 20th Century

ITALIAN 229 Italian Cinema
ITALIAN 245 Italian Fictions: (Subtitle)
ITALIAN 258 Contemporary Italian Society and Culture
ITALIAN 265 Italian Women’s Studies (with appropriate subtitle)
ITALIAN 312 Contemporary Italian Language and Culture
ITALIAN 357 Topics in Italian Culture in Translation (with appropriate subtitle)
ITALIAN 457 Topics in Italian Literature and Culture in Translation (with appropriate subtitle)
ITALIAN 537 Topics in Italian Culture in Translation (with appropriate subtitle)
ITALIAN 629 Major Film Directors (with appropriate subtitle)
JMC 562 Media Studies and Culture
JMC 620 Global Media Systems

PEACE 201 Introduction to Peace Studies and Conflict Resolution

PHILOS 204 Introduction to Asian Religions

POLISH 236 Polish Culture in Its Historical Setting

POL SCI 300 Western European Politics
POL SCI 302 Politics of Eastern Europe
POL SCI 310 Russian and Post-Soviet Politics
POL SCI 316 International Law
POL SCI 325 Latin American Politics
POL SCI 327 Politics of the Middle East and North Africa
POL SCI 330 Politics of International Economic Relations
POL SCI 337 International Organizations & the UN (or UN Summer Seminar)
POL SCI 339 European Integration
POL SCI 340 Politics of Nuclear Weapons
POL SCI 343 Asian International Relations
POL SCI 346 U.S.-Latin American Relations
POL SCI 359 Problems of American Foreign Policy
POL SCI 362 Ethics and International Relations
POL SCI 365 Theories and Methods in International Politics
POL SCI 370 International Conflict
POL SCI 371 Nationalism & Ethnic Conflict
POL SCI 423 Conduct of American Foreign Affairs

PORTUGS 225 Understanding Brazil (with appropriate subtitle)
PORTUGS 360 Brazilian Culture

RUSSIAN 225 Contemporary Slavic Civilization
RUSSIAN 245 Russian Life and Culture

SOCIOL 235 Social Change in the Global Economy
SOCIOL 290 International Migration (with appropriate subtitle)
SOCIOL 452 Social Networks in Global Commerce

SPANISH 225 Understanding the Hispanic World
SPANISH 361 Spanish Culture
SPANISH 363 Spanish-American Culture
SPANISH 461(365) Topics in Hispanic Culture (with appropriate subtitle)

WMNS 401 Global Feminisms

COURSES (GLOBAL)

Web Home Pages:
[ College of Letters & Science ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Global Studies
[ College of Letters & Science ]
[ Schools and Colleges ]
The German Studies Certificate Program is designed to offer UWM students the opportunity to experience firsthand contemporary German life and culture by integrating a semester of study at the Justus Liebig Universität in Giessen with their coursework at UWM. This certificate program is unique in its requirement of a semester study abroad. While at Justus Liebig Universität, students take a sequence of courses that deal with the history and culture of Germany, completing 15 of the 27 credits required by the certificate program. Upon completion of the requirements, students are awarded a certificate, which evidences a concentration in coursework related to the culture, civilization, and language of Germany. The courses taken in Giessen provide the student with a broad exposure to social and cultural issues in German life and society. The program will be of particular interest to students who major in German, music, art, art history, literature, history, international studies, political science, and business.

Prior to the required semester abroad, students must have sophomore standing and demonstrate intermediate proficiency in German (as described in the ACTFL Provisional Proficiency Guidelines) by a written and oral test or by transcript evidence of successful completion of fourth-semester German at UWM. During their semester of study in Giessen, students pay UWM tuition and earn UWM credits. Their programs of study are overseen by a select group of faculty members of the Justus Liebig Universität.

To earn the certificate, students must complete satisfactorily a minimum of 27 credits in courses beyond prerequisite language courses with an average grade of B or better. Students propose their individual programs of study from the list of required and elective courses and submit their proposals to the German Studies Certificate Committee for approval.

**Required Core Courses: 6 cr.**

The following two courses must be completed prior to the semester of study in Giessen:

- GERMAN 111 German Life and Civilization: Part I
- GERMAN 112 German Life and Civilization: Part II

**Electives: Minimum of 6 cr.**

At least two courses must be completed from a list of approved electives. The list is updated periodically by the German Studies Certificate Committee. Courses from this list may be taken before or after the semester in Giessen.

- ARTHIST 366 German Painting 1800-1933
- GEOG 235 West Europe
- GERMAN 360 German for the Global World
- GERMAN 361 German for International Business Communication
- GERMAN 410 German Cultural History
- GERMAN 411 Modern-Day Germany
- GERMAN 415 Topics in German Civilization: (Subtitle)
Courses at the *Justus Liebig Universität*: **15 cr.**

1. Intensive German Workshop, 3 cr. This course is required and is offered in Giessen prior to the start of the *Giessen Sommersemester* (second semester). It runs six weeks and is taught by *JLU* faculty and tutors.

2. During the *JLU Sommersemester*, students register for *JLU* courses in the following areas to earn a total of 9-12 UWM credits: German a) art; b) literature; c) history; d) politics; e) society and social organizations; and f) geography.

3. During their period of study in Giessen, students may earn 3 of the required 15 credits in an independent study project involving a substantial written report specifically designed to relate the Giessen studies to the student’s academic major at UWM.

4. Student study plans during the semester in Giessen require the approval of the German Studies Certificate Committee.
# Hmong Diaspora Studies

Chia Vang, Associate Professor, History, Coordinator, NWQ B 4488, (414) 229-1101, vangcy@uwm.edu

The Hmong Diaspora Studies Certificate Program provides undergraduate students with a multidisciplinary perspective on and knowledge of Hmong history, culture, and contemporary life. The scope of the program extends beyond U.S. borders. While the vast majority of people of Hmong ethnicity today live in southern China, pockets of Hmong people can be found in other parts of Asia, Europe, Oceania, and North and South America. As there is no Hmong nation state, people of Hmong ethnicity exist as minorities in all areas of the world. Their lives differ significantly depending on the social, cultural, economic, and political contexts of specific locations. In line with UWM’s commitment to training global citizens, the Hmong Diaspora Studies Program enables students to compare and contrast the experiences of people of Hmong ethnicity throughout the world.

The Hmong Diaspora Studies Certificate is open to all students seeking a bachelor’s degree from UWM, to students who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted as a non-degree student, the individual must meet regular UWM admission requirements.

## Program Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.50, at least 18 credits in approved Hmong diaspora studies courses as indicated below. Courses for the certificate may not be taken on a credit/no credit basis.

1. Ethnic/Hmong 265 Hmong Americans: History, Culture, and Contemporary Life
2. 1 semester of Hmong language and/or literacy
3. 1 semester of Southeast Asian History selected from the following:
   - Hist 287 The Vietnam War
   - Hist 382 Southeast Asia: The Age of Imperialism and Revolution Since 1880
   - Hist 402 Topics in Asian History: (with appropriate subtitle; consult program coordinator)
4. Nine additional credits selected from the list of approved courses, at least 6 of which must be selected from courses with a primary focus on Hmong cultural groups.

Of the 18 required credits, 12 must be taken in the College of Letters & Science, at least six of them at the 300 level or above. No more than nine credits from any one curricular area may count toward the certificate. Twelve of the 18 required credits must be earned in residence at UWM. Of these 12 credits, nine must be taken at the 300 level or above. A maximum of six credits in independent study may count toward program requirements.

## Approved Elective Courses

### Primary Focus on Hmong Cultural Groups

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>English 192</td>
<td>First-Year Seminar: “Hmong American Life Stories” subtitle</td>
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<tr>
<td>Ethnic 350</td>
<td>Advanced Topics in Comparative Ethnic Studies: &quot;Hmong Diasporic Communities&quot; subtitle</td>
</tr>
<tr>
<td>Ethnic 299</td>
<td>Ad Hoc: (with Hmong-related subtitle)</td>
</tr>
</tbody>
</table>
Ethnic 499  Ad Hoc: (with Hmong-related subtitle)
Ethnic 699  Advanced Independent Study
FLL 103  First Semester of an Uncommonly Taught Language: “Hmong” subtitle
FLL 104  Second Semester of an Uncommonly Taught Language: “Hmong” subtitle
FLL 107  First Semester Hmong Literacy
FLL 108  Second Semester Hmong Literacy
FLL 203  Third Semester of an Uncommonly Taught Language: “Hmong” subtitle
FLL 204  Fourth Semester of an Uncommonly Taught Language: “Hmong” subtitle
Hist 297  Study Abroad: “Exploring Laos â€“ History and Culture” subtitle
Hist 373  Study Abroad: “Exploring Laos â€“ History and Culture” subtitle
Hmong xxx  All courses in the Hmong curricular area

Secondary Focus on Hmong Cultural Groups

Anthro 150*  Multicultural America
Anthro 250  Women’s Roles in Cross-Cultural Perspective
Anthro 323  Peoples and Cultures of Southeast Asia
English 150*  Multicultural America
English 192  First-Year Seminar: “Southeast Asian American Life Stories” subtitle
Ethnic 102  Transnational Migrations: Asian-, Arab-, Euro-American, and Latino Identity
Ethnic 250  Selected Topics in Ethnic Studies: (with appropriate subtitle)
Hist 150*  Multicultural America
Hist 269  Asian Americans in Historical Perspective
Hist 287  The Vietnam War (if not selected above)
Hist 372  Topics in Global History: (with appropriate subtitle)
Hist 382  Southeast Asia: The Age of Imperialism and Revolution Since 1880 (if not selected above)
Hist 402  Topics in Asian History: (with appropriate subtitle) (if not selected above)
Hist 436  Immigrant America Since 1880
Sociol 150*  Multicultural America
Wmns 150*  Multicultural America

* Students may count credits in just one of these courses toward the certificate.

Independent study courses focusing on Hmong cultural groups may be accepted with the approval of the certificate program committee. Other courses not on this list but relevant to the study of Hmong people in the U.S. and other parts of the world may be accepted with the approval of the certificate program committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements with the approval of the certificate program committee. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the creation of the program may have their credits applied retroactively to the certificate program.

Awarding the Certificate

Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students will receive the certificate upon completion of the program requirements.

COURSES

Web Home Pages:
[ College of Letters & Science ]
[ Hmong Diaspora Studies ]
The Certificate in Latin American and Caribbean Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements.

Requirements

Proficiency in a language (other than English) widely spoken in Latin America or the Caribbean is required. The Center for Latin American and Caribbean Studies will determine which languages will satisfy the certificate. This requirement may be fulfilled by either: 1) successful completion (with a grade of C or above) of any upper-level (numbered 300 or above) course in the target language; or 2) successful completion of a language proficiency examination. Exceptions to this requirement must be approved by the LACS Certificate Committee.

Students must complete 21 credits in Latin American and Caribbean content courses, 12 of which must be at the 300 level or above. Students must take courses in at least two curricular areas, although three areas are recommended. No more than 12 credits in any one curricular area may be counted towards the certificate program, and no more than 3 credits may be in independent study courses. In addition to any Latin American content courses taken in a semester-length, UWM-approved study abroad program in Latin America or the Caribbean, an additional three credits for participating also may also be counted, if courses are taken within an immersion setting (as determined by the Center for Latin American and Caribbean Studies). A 2.75 GPA or better must be achieved in all UWM coursework and in all certificate credits. At least 12 credits of the Latin American/Caribbean content courses must be completed at UWM.

Courses that meet the certificate requirements include, but are not limited to, those in the following list. For the most current list of Latin American and Caribbean content courses, see the Center for Latin American and Caribbean Studies, NWQ B 2484, or log on to www4.uwm.edu/clacs.

Africology

205 The Poetry of African, African-American, and Caribbean Writers

299 Ad Hoc: "Sex in the Caribbean" subtitle

311 African Religious Thought and Social Organization

320 Black Culture in Latin America and the Caribbean

334 Survey of Black American and Black Brazilian Societies

414 The Black Woman in America, Africa, and the Caribbean
418 Race, Class, and Gender in the Caribbean

**Anthropology**

225 The Aztec Empire

309 Archaeology of Central and South America

310 Archaeology of Middle America

311 The World of the Ancient Maya

315 Peoples and Cultures of Mexico and Central America

316 Peoples and Cultures of South America

317 Peoples and Cultures of Brazil

318 Peoples and Cultures of the Caribbean

328 Comparative Studies of Music, Race, and Gender in Nationalism

**Art History**

104 African, New World, and Oceanic Art and Architecture

251 Introduction to the Art and Architecture of Latin America

367 Latin American Modernisms

372 Pre-Columbian Art of South America

373 Pre-Columbian Art of Mesoamerica

375 Art of the Aztec Empire

474 Maya Art

499 Ad Hoc: "Modern Art of Latin America" subtitle

**Atmospheric Sciences**

Atm Sci 297 Study Abroad: "Mexico - Air Pollution and Ancient Cultures" subtitle

Atm Sci 497 Study Abroad: "Mexico - Air Pollution and Ancient Cultures" subtitle

**Biological Sciences**

297 Study Abroad: "Ecology of Tropical Streams in Costa Rica" subtitle

497 Study Abroad: "Ecology of Tropical Streams in Costa Rica" subtitle

**Comparative Literature**

135 Experiencing Literature in the 21st Century: "Women and War in Latin America and the Caribbean" subtitle
230 Literature and Society: "Cowboys, Gauchos, and Other Narratives of the Frontier" subtitle

232 Literature and Politics: "Gender and the Historical Novel"; "Women and War" subtitles

350 Topics in Comparative Literature: "Literary and Artistic Perspectives on Prostitution" subtitle

360 Seminar in Literature and Cultural Experience: "Narratives in Torture" subtitle

365 Literatures and Cultures of the Americas: "Comparative Caribbeans" subtitle

**Conservation and Environmental Science**

297 Study Abroad: "Ecology of Tropical Streams in Costa Rica" subtitle

497 Study Abroad: "Ecology of Tropical Streams in Costa Rica" subtitle

**Dance**

370 World Movement Traditions: "Argentinian Tango" subtitle

**Economics**

193 First-Year Seminar: "Prosperity, Poverty, and Economic Justice" subtitle

353 Economic Development

**English**

297 Study Abroad: "Mexico and Cuba - Comparative Globalization" subtitle


320 Studies in Film Authorship: "Cuban and Mexican Filmmakers" subtitle

366 Non-Fiction Prose: "Caribbean Nonfiction" subtitle

463 Writers in African-American Literature: "Caribbean Literature" subtitle

497 Study Abroad: "Mexico and Cuba - Comparative Globalization" subtitle

625 Seminar in Literary History: "Caribbean Literary History" subtitle

**Film Studies**


**Geography**

297 Study Abroad: "Urban Environmental Changes in Guatemala" subtitle

421 Geography of Latin America

422 Geography of South America

462 Cultural Geography of Latin America
497 Study Abroad: "Urban Environmental Changes in Guatemala" subtitle

654 Tropical Field Course (Belize; Panama)

**History**

180 Latin American Society and Culture

388 Latin America: The Colonial Period

389 Latin America: The National Period

390 Latin America in the Age of Revolution, 1898 to the Present

391 History of the International Relations of Latin America

393 History of Mexico

400 Topics in Latin American and Caribbean History: (all subtitles)

**Latin American and Caribbean Studies**

101 Introduction to Latin American and Caribbean Studies

**Political Science**

320 Politics of Developing Countries

325 Latin American Politics

326 Brazilian Politics and Society

346 U.S.-Latin American Relations

373 Societal Change in Contemporary Latin America: (all subtitles)

**Portuguese**

103 First-Semester Portuguese

104 Second-Semester Portuguese

110 Accelerated Portuguese

192 First-Year Seminar: "History of Brazil" subtitle

203 Third-Semester Portuguese

204 Fourth-Semester Portuguese

225 Understanding Brazil: (Subtitle)

297 Study Abroad: "The African Presence in Brazil" subtitle

299 Ad Hoc: "Accelerated Portuguese" subtitle
310 Composition and Conversation
360 Brazilian Culture: (Subtitle)
380 Luso-Brazilian Literature in Translation: (Subtitle)
457 Seminar in Brazilian Literature
497 Study Abroad: "The African Presence in Brazil" subtitle
499 Ad Hoc: "Brazilian History and Culture" subtitle

**Spanish**

192 First-Year Seminar: "Virgins/Whores - Myths, Legends, and Women of the Hispanic World"; "Latin American Women Writers and Feminism" subtitles
203 Third-Semester Spanish
204 Fourth-Semester Spanish
210 Intensive Course in Spoken Spanish III
211 Intensive Course in Spoken Spanish IV
308 Advanced Writing and Reading
315 Spanish Immersion Experience
318 Advanced Speaking and Listening
319 Advanced Speaking and Listening for Heritage Speakers
332 Business and Legal Spanish
338 Spanish for Health Professionals
341 Introduction to Hispanic Linguistics
347 Introduction to Translation: Spanish to English
348 Introduction to Translation: English to Spanish
349 Introduction to Interpreting
350 Introduction to Literary Analysis
383 Spanish American Literature in Translation: (Subtitle)
391 Social and Historical Issues in the Hispanic World: "Latin America - Past and Present" subtitle
441 History and Dialectics of the Spanish Language
442 Business and Legal Spanish II
443 Spanish Phonetics and Phonology
444 Spanish Syntax and Morphology
446 Hispanic Sociolinguistics
447 Seminar in Advanced Translation: Spanish to English
448 Seminar in Advanced Translation: English to Spanish
461 (365) Topics in Hispanic Culture: "The Spanish Renaissance and Its Cultures, 16th and 17th Centuries"; "Exotic Stories from the Hispanic World - The Pleasure of Words" subtitles
470 Survey of Hispanic Literature and Civilization
472 Survey of Spanish-American Literature and Civilization
507 Seminar on Spanish-American Literature: (all subtitles)
571 (453) Seminar on Spanish-American Colonial Literature and Civilization: (all subtitles)
575 (455) Seminar on Eighteenth- and Nineteenth-Century Spanish-American Literature and Civilization: (all subtitles)
577 (457) Seminar on Modern Spanish-American Literature and Civilization: (all subtitles)

Urban Planning

692 Special Topics in Urban Planning: "Latino Cities" subtitle

Courses

Latin American and Caribbean Studies (LACS)
The Center for Latin American and Caribbean Studies and the Latino Studies Program in the College of Letters & Science, in cooperation, offer a unique major in Latin American, Caribbean, and U.S. Latino Studies. The curriculum is designed to ensure that students acquire foundational knowledge of U.S. Latino, Latin American, and Caribbean history and cultures; develop analytical and critical thinking skills; learn the comparative approach to studies of cultures; and gain insight into Latino, Latin American, and Caribbean cultures from a variety of perspectives. Students take introductory courses in Latin American/Caribbean and U.S. Latino Studies and two integrated courses that focus on similarities and differences among people of both areas. In addition, students choose their elective courses from many different departments, and they must select at least two courses each from clusters 1 and 2.

1. Artistic Expression
2. Social and Natural Sciences
3. Language and Communication Skills

A final research project will serve as a culminating experience in the major. Students will learn and demonstrate research skills in examining an issue or a problem that is relevant to the major, i.e., that integrates Latino and Latin American/Caribbean studies.

Course of Study: Major

Students are required to complete a minimum of 33 credits in the major, at least 15 of which must be taken at the advanced level (300 and above) in residence at UWM. The College requires that all students attain at least a 2.5 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.5 GPA on all major credits attempted, including any transfer work. The following are required:

Core Courses (15 credits)
Both of the following introductory courses:
LACS 101 Introduction to Latin American and Caribbean Studies 3
LATINO 101 Introduction to Latino Studies 3
Two of the following integrated courses with both Latina/o and Latin American-Caribbean content:
COMPLIT 365 Literatures and Cultures of the Americas: Subtitle
CURRINS 550 Using Children’s Literature to Explore Latin America/Latino Cultural Heritage
ENGLISH 316 World Cinemas (with appropriate subtitle)
ENGLISH 394 Theories of Mass Culture: “Latino and Latin America Popular Culture” subtitle
HIST 372 Topics in Global History (with appropriate subtitle)
LACUSL 200 Selected Topics in Latin American, Caribbean, and U.S. Latino Studies: (Subtitle)
LACUSL 300 Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies: (Subtitle)
LACUSL/THEATRE 324 Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre
LACUSL 699 Independent Latin American, Caribbean, and U.S. Latino Integrated Studies
LATINO/SOCIOL 423  Latino Immigration and Incorporation: (Subtitle)

One of the following capstone courses:
- LACUSL 680  Senior Research Project (3 cr.)
- LACUSL 699  Advanced Independent Study

In semesters when LACUSL 680 is not offered, students may complete the capstone requirement by taking LACUSL 699, Advanced Independent Study, with an appropriate faculty member from the LACUSL associated faculty. L&S guidelines require that the student: 1) conduct independent research; 2) evaluate & integrate prior research; and 3) present the findings in a professional manner & context; and that the sponsoring faculty member provide clear guidelines on how performance will be evaluated. The student also may substitute an existing course in one of the curricular codes represented by the majors electives, provided that it satisfies the L&S research requirement for that major and provided that the major research project undertaken as part of that course has a distinctly LACUSL topic.

Electives (18 credits). Electives may be selected from integrated courses as well as from the three course clusters listed below. Students must take at least two courses from Cluster 1, at least two from Cluster 2, and up to two from Cluster 3. At least three different departmental curricular codes must be represented among the electives. A course taken to satisfy the Integrative requirement may not count as an elective. A maximum of 3 credits in an internship (LACUSL 289 or LACUSL 489) may count as an elective for the major.

### 1. Artistic Expression

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ARTHIST 104</td>
<td>African, New World, and Oceanic Art and Architecture</td>
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<tr>
<td>ARTHIST 251</td>
<td>Introduction to the Art and Architecture of Latin America</td>
</tr>
<tr>
<td>ARTHIST 367</td>
<td>Latin American Modernisms</td>
</tr>
<tr>
<td>ARTHIST 373</td>
<td>Pre-Columbian Art of Mesoamerica</td>
</tr>
<tr>
<td>ARTHIST 375</td>
<td>Art of the Aztec Empire</td>
</tr>
<tr>
<td>COMPLIT 365</td>
<td>Literatures and Cultures of the Americas: (Subtitle)</td>
</tr>
<tr>
<td>CURRINS 550</td>
<td>Using Children’s Literature to Explore Latin American/Latino Cultural Heritage</td>
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<tr>
<td>DANCE 414</td>
<td>Dance History: African Dance Through the Diaspora</td>
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<tr>
<td>ENGLISH 279</td>
<td>Introduction to U.S. Latino/a Literature</td>
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<tr>
<td>ENGLISH 316</td>
<td>World Cinemas (with appropriate subtitle)</td>
</tr>
<tr>
<td>ENGLISH 374</td>
<td>Survey of U.S. Latino/a Literature</td>
</tr>
<tr>
<td>ENGLISH 394</td>
<td>Theories of Mass Culture (with appropriate subtitle)</td>
</tr>
<tr>
<td>ENGLISH 523</td>
<td>Studies in U.S. Latino/a Literature</td>
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<tr>
<td>LACUSL/THEATRE 324</td>
<td>Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre</td>
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<tr>
<td>PORTUGS 225</td>
<td>Understanding Brazil</td>
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<tr>
<td>PORTUGS 360</td>
<td>Brazilian Culture: (Subtitle)</td>
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<tr>
<td>PORTUGS 380</td>
<td>Luso-Brazilian Literature in Translation</td>
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<tr>
<td>PORTUGS 457</td>
<td>Seminar in Brazilian Literature</td>
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<tr>
<td>SPANISH 371</td>
<td>Introduction to Latino Literature in English</td>
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<tr>
<td>SPANISH 373</td>
<td>Topics in Latino Literature in English: (Subtitle)</td>
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<tr>
<td>SPANISH 472</td>
<td>Survey of Spanish-American Literature and Civilization</td>
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<tr>
<td>SPANISH 507</td>
<td>Seminar on Spanish-American Literature: (Subtitle)</td>
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<tr>
<td>SPANISH 575</td>
<td>Seminar on 18th and 19th Century Spanish-American Literature and Civilization: (with appropriate subtitle)</td>
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<tr>
<td>SPANISH 577</td>
<td>Seminar on Modern Spanish-American Literature and Civilization: (with appropriate subtitle)</td>
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### 2. Social and Natural Sciences

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>AFRICOL 320</td>
<td>Black Cultures in Latin America and the Caribbean</td>
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<td>AFRICOL 334</td>
<td>Survey of Black American and Black Brazilian Societies</td>
</tr>
<tr>
<td>AFRICOL 414</td>
<td>The Black Woman in America, Africa, and the Caribbean</td>
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<tr>
<td>AFRICOL 418</td>
<td>Race, Class, and Gender in the Caribbean</td>
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<tr>
<td>ANTHRO 225</td>
<td>The Aztec Empire</td>
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<tr>
<td>ANTHRO 309</td>
<td>Archaeology of Central and South America</td>
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<tr>
<td>ANTHRO 310</td>
<td>Archaeology of Middle America</td>
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ANTHRO 311  The World of the Ancient Maya
ANTHRO 315  Peoples and Cultures of Mexico and Central America
ANTHRO 497  Study Abroad Peru: Peru Past and Present, Archaeological Perspectives
ATM SCI 297/497  Study Abroad Mexico: Air Pollution and Ancient Cultures
BIO SCI 297/497  Study Abroad Panama: Tropical Biology
ECON 353  Economic Development
ED POL 212  Educational Issues in Spanish-Speaking Communities
ED POL 460  The Chicano Experience
ED POL 560  Education and Hispanics
ETHNIC 102  Transnational Migrations: Asian-, Arab-, Euro-American, and Latino Identity
ETHNIC 245  Indians, Artists, and Conquistadores: The U.S. Southwest
GEOG 421  Geography of Latin America
GEOG 482  Cultural Geography of Latin America
HIST 180  Latin American Society and Culture
HIST 267  History of Latinos in the United States
HIST 290  Topics in Global History: Ethnicity and Media: U.S., Latin America, and Caribbean subtitle
HIST 372  Topics in Global History: “Latino and Latin American/Caribbean Cities” (previously offered as UrbPlan 692); “History of Media” subtitles
HIST 393  History of Mexico
HIST 400  Topics in Latin American and Caribbean History (with appropriate subtitle)
HIST 404  Topics in American History: “Tale of Two Cities – Milwaukee and Los Angeles” subtitle
LACUSL 200  Selected Topics in Latin American, Caribbean, and U.S. Latino Studies: (Subtitle)
LACUSL 300  Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies: (Subtitle)
POL SCI 325  Latin American Politics
POL SCI 346  U.S.-Latin American Relations
SOCIOL 323  Perspectives on Latino Communities

3. Language and Communication Skills. Students are allowed to count up to two courses from this cluster. Courses from this cluster are not required.
ANTHRO/LINGUIS 570  Issues in Bilingualism
COMMUN 350  Intercultural Communication
COMMUN 550  International and Global Communication
COMMUN 675  Communication in International Mediation and Peacebuilding
CURRINS 542  History and Politics of Second Language Education
ENGLISH 404  Language, Power, and Identity
ETHNIC 200  Racial Minorities in the U.S.
FRENCH 303  Conversation and Composition: Intermediate Level
FRENCH 311  French for International Business/Professional Communication: Oral Emphasis
FRENCH 325  Intensive Grammar and Usage
FRENCH 361  French for International Business/Professional Communication: Writing Focus
FRENCH 401  French for Reading Knowledge
JAMS 450  Race and Ethnicity in the Media
LINGUIS 420  Introduction to Second Language Acquisition
PORTUGS 310  Composition and Conversation
PORTUGS 446  The Portuguese-Speaking World: Sociolinguistic Perspectives
SOCIOL 324  Comparative Race Relations
SPANISH 120  Spanish for Health Professionals I
SPANISH 121  Spanish for the Health and Social Services
SPANISH 308  Advanced Writing and Reading
SPANISH 318  Advanced Speaking and Listening
SPANISH 319  Advanced Speaking and Listening for Heritage Speakers
SPANISH 332  Business and Legal Spanish I
SPANISH 338  Spanish for Health Professionals I
SPANISH 341  Introduction to Hispanic Linguistics
SPANISH 347  Introduction to Translation: Spanish to English
SPANISH 348  Introduction to Translation: English to Spanish
SPANISH 349  Introduction to Interpreting
SPANISH 350  Introduction of Literary Analysis
SPANISH 388  Health Issues in the Hispanic World
SPANISH 441  History and Dialects of the Spanish Language
SPANISH 442  Business and Legal Spanish II
SPANISH 446  Hispanic Sociolinguistics
SPANISH 449  Advanced Court Interpreting
SPANISH 595  Spanish for Reading Knowledge
A 3-credit internship course may count toward elective credit:
LACS 289  Internship, Lower Division
LACS 489  Internship, Upper Division
LACUSL 289  Internship, Lower Division
LACUSL 489  Internship, Upper Division
LATINO 289  Internship, Lower Division
LATINO 489  Internship, Upper Division
With approval of program coordinator, a relevant course not currently listed above may be substituted.

Faculty
(A complete list of LACUSL faculty members is available at www4.uwm.edu/lacusl/facultystaff)

Nancy Bird-Soto, Assoc. Prof., PhD
University of Wisconsin-Madison

Gilberto Blasini, Assoc. Prof., PhD, English
University of California, Los Angeles
Dir., Film Studies Program

Brenda Cárdenas, Assoc. Prof., PhD, English
University of Michigan-Ann Arbor

Christopher Davis-Benavides, Assoc. Prof., MFA, Visual Arts
University of Wisconsin-Madison

Raoul Deal, Sr. Lect., MFA, Cultures and Communities
Universidad Nacional Autónoma de México

César Ferreira, Prof., PhD, Spanish and Portuguese
University of Texas at Austin

Enrique Figueroa, Asst. Prof., PhD, Governmental Affairs
University of California, Davis
Dir., Roberto Hernández Center

Jean Hudson, Assoc. Prof., PhD, Anthropology
University of California, Santa Barbara

Michelle Lopez-Rios, Asst. Prof., MFA, Theatre
University of Houston

Aims McGuinness, Assoc. Prof., PhD
University of Michigan
UWM Undergraduate Catalog 2014-15

College of Letters & Science

Special Areas of Study

Literature in Translation

A literature-in-translation course ordinarily involves the study in English translation of assigned literary works from a single foreign language. Courses in which English translations of literary works from more than one foreign language are assigned and studied may be offered by a department in which two or more foreign languages are taught or by the Comparative Literature program. Literature-in-translation courses are offered for students who do not have a command of the respective foreign languages and who wish to acquaint themselves with the literature in those languages. Each course is taught by an instructor who knows the original language(s) well and is able to discuss knowledgeably the relative strengths and weaknesses of the translations used in the course.

All the courses listed below carry credit as electives. The courses in classics may be used to fulfill the requirements for the classical civilization concentration. Courses in Italian may be used to fulfill the requirements for option B of the major in Italian. None of these courses carries foreign language credit.

In the list below, courses are identified only by curricular area, number, and title. For the specific content and prerequisites of each course, see its listing under the originating department elsewhere in this catalog.

CLASSIC 192 First-Year Seminar: (with appropriate subtitle)
CLASSIC 201 Introduction to Greek Life and Literature
CLASSIC 202 Introduction to Roman Life and Literature
CLASSIC 260 Classical Utopias
CLASSIC 301 The Life and Literature of Classical Athens: Herodotus and Dramatists
CLASSIC 302 War and Politics in Ancient Greece
CLASSIC 303 The Life and Literature of the Roman Empire
CLASSIC 304 The Graeco-Roman World: (Subtitle)
CLASSIC 375 Origins and Survivals of Classical Myth
CLASSIC 390 Egyptian Mythology
COMPLIT 133 Contemporary Imagination in Literature and the Arts
COMPLIT 135 Cross-Cultural Literary Forms: (Subtitle)
COMPLIT 207 World Literature in Translation: Antiquity Through the 1600s
COMPLIT 208 World Literature in Translation: The 17th to the 21st Century
COMPLIT 230 Literature and Society: (Subtitle)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>COMPLIT 231</td>
<td>Literature and Religion: (Subtitle)</td>
</tr>
<tr>
<td>COMPLIT 232</td>
<td>Literature and Politics: (Subtitle)</td>
</tr>
<tr>
<td>COMPLIT 233</td>
<td>Literature and Film: (Subtitle)</td>
</tr>
<tr>
<td>COMPLIT 240</td>
<td>Norse Mythology</td>
</tr>
<tr>
<td>COMPLIT 309</td>
<td>Great Works of Modern Culture: (Subtitle)</td>
</tr>
<tr>
<td>COMPLIT 320</td>
<td>Mediaeval Literature and Culture: (Subtitle)</td>
</tr>
<tr>
<td>COMPLIT 321</td>
<td>Renaissance Literature and Culture: (Subtitle)</td>
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<td>COMPLIT 333</td>
<td>Dante's <em>Divine Comedy</em> in Translation</td>
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<td>COMPLIT 360</td>
<td>Seminar in Literature and Cultural Experience: (Subtitle)</td>
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<tr>
<td>COMPLIT 410</td>
<td>Classical Backgrounds of Modern Literature: (Subtitle)</td>
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<tr>
<td>COMPLIT 444</td>
<td>Myths, Legends, and Poems of the Celts</td>
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<td>COMPLIT 533</td>
<td>Seminar in Trends in Modern Literature: &quot;Development of the Arabic Novel&quot; subtitle</td>
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<td>FRENCH 145</td>
<td>Views of France: (Subtitle)</td>
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<tr>
<td>FRENCH 257</td>
<td>Literature of the French-Speaking World in Translation: (Subtitle)</td>
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<td>FRENCH 357</td>
<td>Literature of the French-Speaking World in Translation: (Subtitle)</td>
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<td>FRENCH 457</td>
<td>Topics in French and Francophone Literature in Translation: (Subtitle)</td>
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<td>GERMAN 160</td>
<td>Masterpieces of German Literature in Translation: (Subtitle)</td>
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<td>GERMAN 270</td>
<td>German Myths and Legends: (Subtitle)</td>
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<td>GERMAN 301</td>
<td>German Authors in Translation: (Subtitle)</td>
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<td>GERMAN 305</td>
<td>German Life and Literature: (Subtitle)</td>
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<td>HEBR ST 231</td>
<td>Introduction to the Old Testament/Hebrew Bible</td>
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<tr>
<td>HEBR ST 232</td>
<td>Survey of the Literature of the Post-Biblical Period</td>
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<tr>
<td>HEBR ST 234</td>
<td>Survey of Modern Hebrew and Jewish Literature in Translation</td>
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<td>HEBR ST 235</td>
<td>The <em>Dead Sea Scrolls</em> and the Bible</td>
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<td>HEBR ST 236</td>
<td>The Biblical World</td>
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<tr>
<td>HEBR ST 274</td>
<td>Ancient Egyptian Civilization</td>
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<tr>
<td>HEBR ST 331</td>
<td>Topics in Biblical Literature: (Subtitle)</td>
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<tr>
<td>HEBR ST 332</td>
<td>Women in the Bible</td>
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</table>
# UWM Undergraduate Catalog 2014-2015

## College of Letters & Science

### Latino Studies

Enrique Figueroa, *Associate Professor, Governmental Affairs; Director, Roberto Hernández Center; Assistant to Provost for Latino Affairs, Coordinator*

Kate Powers, *Interdepartmental Program Specialist, NWQ-B 5420, (414) 229-6686, powersk@uwm.edu*

The Latino Studies Certificate Program is designed for students who have an interest in Latino studies, regardless of major or college affiliation. It utilizes an interdisciplinary approach to examining the experiences, cultures, and social conditions of Latinos in the United States.

The program is open to any University of Wisconsin-Milwaukee undergraduate who has completed at least 45 credits and to those who previously received a bachelor’s degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor’s degree receive the certificate upon completion of the program requirements.

Students who are enrolled in the program must complete 21 credits in approved Latino courses with a minimum grade point average of 2.5. Of the 21 credits needed for the certificate, 6 credits must be in the social sciences, 6 credits must be in the humanities, and 3 credits must be taken from the School of Education. At least 12 credits for the certificate must be completed at UWM. For additional program information, contact the coordinator.

### Required Courses (15 cr.)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>LATINO 101</td>
<td>Introduction to Latino Studies</td>
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<tr>
<td>HIST 267</td>
<td>The History of Latinos in the United States</td>
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<tr>
<td>SOCIOL 323</td>
<td>Perspectives on Latino Communities</td>
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<td>One of the following three courses:</td>
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<tr>
<td>ED POL 212</td>
<td>Educational Issues in Spanish-Speaking Communities</td>
<td></td>
</tr>
<tr>
<td>ED POL 460</td>
<td>The Chicano Experience</td>
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<tr>
<td>ED POL 560</td>
<td>Education and Hispanics</td>
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### Elective Courses (6 cr.)

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<thead>
<tr>
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<tbody>
<tr>
<td>CURRINS 542</td>
<td>History and Politics of Second Language Education</td>
</tr>
<tr>
<td>ED POL 212</td>
<td>Educational Issues in Spanish-Speaking Communities  (if not selected above)</td>
</tr>
<tr>
<td>ED POL 460</td>
<td>The Chicano Experience (if not selected above)</td>
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<tr>
<td>ED POL 560</td>
<td>Education and Hispanics (if not selected above)</td>
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<tr>
<td>ENGLISH 279</td>
<td>Introduction to U.S. Latino/a Literature: (Subtitle)</td>
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<tr>
<td>ENGLISH 523</td>
<td>Studies in U.S. Latino/a Literature: (Subtitle)</td>
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<td>ETHNIC 250</td>
<td>Selected Topics in Ethnic Studies: &quot;Women as Migrant Workers&quot; subtitle</td>
</tr>
<tr>
<td>LATINO 199</td>
<td>Independent Study</td>
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<tr>
<td>LATINO 699</td>
<td>Advanced Independent Study</td>
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<tr>
<td>SOCIOL 193</td>
<td>First-Year Seminar: &quot;Latinos and the City&quot; subtitle</td>
</tr>
<tr>
<td>SOCIOL 423</td>
<td>Latino Immigration and Incorporation: (Subtitle)</td>
</tr>
</tbody>
</table>
Courses

Latino Studies (LATINO)

Web Home Pages
[ College of Letters & Science ]
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University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Latino Studies
[ College of Letters & Science ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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The Ancient Mediterranean Studies Certificate Program at UWM provides undergraduate students with an interdisciplinary program for the study of the cultures and societies of ancient Greece and Rome and fosters interaction among faculty members with a teaching or research interest in the classical world. Drawing on the resources of specialists working in this field at UWM, the program offers students a coordinated core of courses clustered around the disciplines of Classics, History, and Art History, and also draws on the resources of several other related areas and disciplines, such as Anthropology, Comparative Literature, English, Hebrew Studies, Philosophy, and Political Science.

While the program requires some study of the ancient languages, proficiency in Latin and Greek is not required for certification. Students, however, may obtain a certificate in Ancient Mediterranean Studies with Language Proficiency if they complete, as part of or in addition to the certificate requirements, 9 credits in Latin or Greek courses numbered 300 and above or pass a proficiency exam. Students also are encouraged to take advantage of the opportunities for study abroad, including fieldwork in archaeology, which may be used to fulfill certificate requirements.

The program is open to all students seeking a bachelor's degree from UWM and to students who previously received a bachelor's degree from UWM or any other accredited college or university. The program coordinator interviews interested students to ascertain the appropriateness of the program to their academic goals and to inform them of program requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree receive the certificate upon completion of the program requirements.

Requirements

Students enrolled in the Certificate in Ancient Mediterranean Studies (CAMS) Program must complete a minimum of 24 credits, distributed as follows:

Core Requirements (18-20 credits)

1. 6 credits in History, chosen from Hist 201, 202, 303, 304, 307, and 308; Hist 370 and 371 can be taken with approval from the coordinator.
2. 6 credits in Art History, chosen from ArtHist 101 and/or 300-level or above ArtHist courses from the approved list.
3. Two semesters at any level in one of the following languages: Latin, Greek, or Biblical Hebrew (6-8 credits, depending on the course).

In addition to the core requirements, students also must complete 6 credits from the list of approved courses (usually found in Anthropology, Art History, Classics, Hebrew Studies, History, and Philosophy), at least 3 of which must be in an approved CAMS course at the 300 level or above or in any Latin or Greek course not used to fulfill the language requirement. Other courses may count toward the certificate at the discretion of the Program's Advisory Committee. Students may petition to include courses with appropriate content that do not appear on the list.

Students must achieve a grade point average of 3.0 or higher in the courses that satisfy the Program requirements, and all such courses must be graded rather than taken on a credit/no credit basis. Of the 24 required credits, at least 9 credits must be taken at the advanced level (numbered 300 and above) in residence at UWM. At least 12 credits must be taken
in courses in the College of Letters and Science, with at least 6 of these at the advanced level.

**Guidelines for Substitutions**

Generally, substitutions for core requirements will not be allowed except in cases when an equivalent course has been taken at another university. In such cases, the student must petition the CAMS advisory committee and provide the following documentation: a formal statement of justification, a syllabus, and a transcript.

**Approved Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ANTHRO 103</td>
<td>Digging Up the Past: Approaches to Archaeology</td>
<td>3</td>
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<tr>
<td>ANTHRO 305</td>
<td>The Celtic World</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 306</td>
<td>European Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ANTHRO 307</td>
<td>World Archaeology: Foundation of Civilization</td>
<td>3</td>
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<tr>
<td>ARTHIST 101</td>
<td>Ancient and Medieval Art and Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 220</td>
<td>The Beginning of Medieval Art</td>
<td>3</td>
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<tr>
<td>ARTHIST 312</td>
<td>Minoan and Mycenaean Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 313</td>
<td>Greek Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 315</td>
<td>Art and Archaeology of Ancient Egypt</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 316</td>
<td>Roman Art and Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARTHIST 324</td>
<td>Art and Architecture of Byzantium</td>
<td>3</td>
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<td>ARTHIST 327</td>
<td>Art and Architecture of Islamic Spain</td>
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<td>ARTHIST 412</td>
<td>Cities and Sanctuaries of Ancient Greece</td>
<td>3</td>
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<td>ARTHIST 413</td>
<td>Greek Sculpture</td>
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<td>ARTHIST 414</td>
<td>Greek Vase Painting</td>
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<td>ARTHIST 416</td>
<td>Roman Architecture</td>
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<td>CELTIC 350</td>
<td>Advanced Topics in Celtic Studies: “The Archaeology of Ireland” subtitle</td>
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<td>CLASSIC 101</td>
<td>Latin and Greek in English Words</td>
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<td>CLASSIC 170</td>
<td>Classical Mythology</td>
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<td>CLASSIC 171</td>
<td>Classical Mythology: An Audiovisual Supplement</td>
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<tr>
<td>CLASSIC 192</td>
<td>Freshman Seminar: “Ancient Greek and Roman Love Poetry” subtitle</td>
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<tr>
<td>CLASSIC 201</td>
<td>Introduction to Greek Life and Literature</td>
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<tr>
<td>CLASSIC 202</td>
<td>Introduction to Roman Life and Literature</td>
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<tr>
<td>CLASSIC 260</td>
<td>Classical Utopias</td>
<td>3</td>
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<tr>
<td>CLASSIC 297</td>
<td>Study Abroad: “Cultural Diversity of Ancient Campania” subtitle</td>
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<td>CLASSIC 299</td>
<td>Ad Hoc: “Egyptian Hieroglyphics” and “Jason and Medea” subtitles</td>
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<td>CLASSIC 301</td>
<td>The Life and Literature of Classical Athens: Herodotus and Dramatists</td>
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<td>CLASSIC 302</td>
<td>War and Politics in Ancient Greece</td>
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<td>CLASSIC 303</td>
<td>The Life and Literature of the Roman Empire</td>
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<td>CLASSIC 304</td>
<td>The Greco-Roman World: (All Subtitles)</td>
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<td>CLASSIC 375</td>
<td>Origins and Survivals of Classical Myth</td>
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<td>CLASSIC 381</td>
<td>Honors Seminar: (All Subtitles)</td>
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<td>CLASSIC 390</td>
<td>Egyptian Mythology</td>
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<td>CLASSIC 497</td>
<td>Study Abroad: “Cultural Diversity of Ancient Campania” subtitle</td>
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<td>World Literature in Translation: Antiquity Through the 1600s</td>
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<tr>
<td>GREEK 205</td>
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<tr>
<td>GREEK 306</td>
<td>Fourth Semester Greek</td>
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<td>GREEK 372</td>
<td>The New Testament</td>
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<tr>
<td>GREEK 501</td>
<td>Readings in Classical Greek Prose: (All Subtitles)</td>
<td>3</td>
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<td>GREEK 502</td>
<td>Readings in Ancient Greek Poetry: (All Subtitles)</td>
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<td>HEBR ST 106</td>
<td>Introduction to Biblical Hebrew II</td>
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<td>HEBR ST 131</td>
<td>Introduction to Biblical Studies</td>
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<td>HEBR ST 231</td>
<td>Introduction to the Old Testament/Hebrew Bible</td>
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<td>Survey of the Literature of the Post-Biblical Period</td>
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<td>Introduction to the New Testament</td>
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<td>HEBR ST 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
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<td>The Biblical World</td>
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<td>HEBR ST 249</td>
<td>History of Jewish Civilization: Biblical Period</td>
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<td>History of Jewish Civilization: The Greek and Roman Periods</td>
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<td>Ancient Egyptian Civilization</td>
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<td>HEBR ST 305</td>
<td>Advanced Hebrew I</td>
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<td>Women in the Bible</td>
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<td>Introduction to the Mishna</td>
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<td>Introduction to the Targum</td>
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<td>The Ancient World: The Near East and Greece</td>
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<td>The Ancient World: The Roman Republic and Empire</td>
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<td>The History of Medieval Europe: The Early Middle Ages</td>
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<td>HIST 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
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<td>HIST 301</td>
<td>History of Christianity, East and West to 1500</td>
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<td>A History of Greek Civilization: The Greek City-State</td>
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<td>HIST 304</td>
<td>A History of Greek Civilization: The Age of Alexander the Great</td>
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<td>HIST 307</td>
<td>A History of Rome: The Republic</td>
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<td>HIST 308</td>
<td>A History of Rome: The Empire</td>
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<td>HIST 370</td>
<td>Topics in the History of Religious Thought: “Judaism in the Ancient World” subtitle</td>
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<td>HIST 371</td>
<td>Topics in European History: “Rome in the Age of Constantine â€“ Society and Culture” subtitle</td>
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<td>HIST 398</td>
<td>Honors Seminar: “Medicine and Healing in Ancient Greece and Rome” subtitle</td>
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<td>HONORS 200</td>
<td>Honors Seminar: The Shaping of the Modern Mind â€“ “Nostalgic Fictions: The Odyssey and Its Afterlife” and “Cleopatra: Passion, Power, and Political Fantasy” subtitles</td>
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<tr>
<td>LATIN 103</td>
<td>First Semester Latin</td>
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<td>LATIN 501</td>
<td>Readings in Latin Prose: (All Subtitles)</td>
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<td>Readings in Latin Poetry: (All Subtitles)</td>
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<td>LATIN 508</td>
<td>Latin Prose Composition</td>
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<td>LINGUIS 211</td>
<td>Origin of Words</td>
<td>3</td>
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<td>PHILOS 430</td>
<td>History of Ancient Philosophy</td>
<td>3</td>
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<td>PHILOS 550</td>
<td>Plato</td>
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<td>PHILOS 551</td>
<td>Aristotle</td>
<td>3</td>
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<tr>
<td>PHILOS 681</td>
<td>Seminar in Advanced Topics: “Aristotle’s Natural Philosophy” subtitle</td>
<td>3</td>
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</tbody>
</table>
The Certificate Program in Middle Eastern and North African Studies is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as a non-degree student, individuals must meet regular university admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

The certificate program offers students a background in Middle Eastern and North African languages, cultures, history, and civilization. The program requires one year of Arabic or Hebrew language courses and a historical survey course. Upper-level courses offer students the opportunity to explore Middle Eastern literature, history, politics, religion, and art in greater depth. Courses totaling 23 credits must be completed with a GPA of 2.75 or better. At least one half of the work for the certificate must be taken at UWM. The Committee for Middle Eastern and North African Studies administers the program and advises students.

In addition to taking courses related to the Middle East and North Africa, students have opportunities to meet and study with Middle Eastern scholars who regularly visit UWM through a number of institutional partnerships with Middle Eastern universities. Students also may take advantage of study abroad programs that offer credit for academic work in the Middle East and North Africa.

Following are the detailed requirements for the certificate. For the content and prerequisites of each course, see its listing under the originating department elsewhere in this catalog.

I. 8 credits (or equivalent) in a single Middle Eastern Language sequence from either Arabic or Hebrew.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tr>
<td>Arabic 102</td>
<td>Second Semester Arabic</td>
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<tr>
<td>Hebr St 101</td>
<td>First Semester Hebrew</td>
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<td>Hebr St 102</td>
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<td>Hebr St 105</td>
<td>Introduction to Biblical Hebrew I</td>
<td>4</td>
</tr>
<tr>
<td>Hebr St 106</td>
<td>Introduction to Biblical Hebrew II</td>
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II. At least one course selected from the following survey courses:

<table>
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<th>Course</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>Hist 280</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
<td>3</td>
</tr>
<tr>
<td>Hist 281</td>
<td>Islamic Civilization: The Middle Period, ca. 1200-1805</td>
<td>3</td>
</tr>
<tr>
<td>Hist 282</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
<td>3</td>
</tr>
</tbody>
</table>

III. At least 12 additional credits selected from the approved electives list, of which at least 9 must be at the 300 level or above.

Students must include among their credits selected for section III at least one course in Hebrew studies and one course in Arabic studies.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthro 327</td>
<td>Peoples and Cultures of the Middle East</td>
</tr>
<tr>
<td>Anthro 641</td>
<td>Seminar in Anthropology: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Arabic 111</td>
<td>Cultures and Civilizations of the Muslim Middle East</td>
</tr>
<tr>
<td>Arabic 201</td>
<td>Third Semester Arabic</td>
</tr>
<tr>
<td>Arabic 202</td>
<td>Fourth Semester Arabic</td>
</tr>
<tr>
<td>Arabic 299</td>
<td>Ad Hoc: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Arabic 301</td>
<td>Fifth Semester Arabic</td>
</tr>
<tr>
<td>Arabic 302</td>
<td>Sixth Semester Arabic</td>
</tr>
<tr>
<td>Arabic 499</td>
<td>Ad Hoc: (with appropriate subtitle)</td>
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<tr>
<td>ArtHist 315</td>
<td>Art and Archaeology of Ancient Egypt</td>
</tr>
<tr>
<td>ArtHist 324</td>
<td>Art and Architecture of Byzantium</td>
</tr>
<tr>
<td>ArtHist 326</td>
<td>Heretics and Iconoclasts: The Art and Architecture of the Christian East</td>
</tr>
<tr>
<td>ArtHist 327</td>
<td>The Arts of Islam</td>
</tr>
<tr>
<td>ArtHist 435</td>
<td>Art and Architecture Along the Western Silk Road</td>
</tr>
<tr>
<td>Classic 390</td>
<td>Egyptian Mythology</td>
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<tr>
<td>CompLit 533</td>
<td>Seminar in Trends in Modern Literature: &quot;Development of the Arabic Novel&quot;</td>
</tr>
<tr>
<td>English 247</td>
<td>Literature and Human Experience: (with appropriate subtitle)</td>
</tr>
<tr>
<td>French 357</td>
<td>Literature of the French-Speaking World in Translation: (with appropriate subtitle)</td>
</tr>
<tr>
<td>French 431</td>
<td>Seminar in Literature of the Francophone World: (with appropriate subtitle)</td>
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<tr>
<td>French 432</td>
<td>Seminar in French and Francophone Cultures: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Hebr St 201</td>
<td>Third Semester Hebrew</td>
</tr>
<tr>
<td>Hebr St 202</td>
<td>Fourth Semester Hebrew</td>
</tr>
<tr>
<td>Hebr St 205</td>
<td>Intermediate Biblical Hebrew I</td>
</tr>
<tr>
<td>Hebr St 206</td>
<td>Intermediate Biblical Hebrew II</td>
</tr>
<tr>
<td>Hebr St 231</td>
<td>Survey of the Books of the Old Testament in Translation</td>
</tr>
<tr>
<td>Hebr St 235</td>
<td>The Dead Sea Scrolls and the Bible</td>
</tr>
<tr>
<td>Hebr St 238</td>
<td>Topics in Hebrew/Jewish Literature, Art, and Culture: (with appropriate subtitle, e.g., &quot;Judaism, Christianity, and Islam&quot;)</td>
</tr>
<tr>
<td>Hebr St 254</td>
<td>Studies in Hebrew Culture: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Hebr St 255</td>
<td>The Politics of American Jewish Identity</td>
</tr>
<tr>
<td>Hebr St 261</td>
<td>Representing the Holocaust in Words and Images</td>
</tr>
<tr>
<td>Hebr St 268</td>
<td>Jewish and Christian Responses to the Holocaust</td>
</tr>
<tr>
<td>Hebr St 274*</td>
<td>Ancient Egyptian Civilization</td>
</tr>
<tr>
<td>Hebr St 299</td>
<td>Ad Hoc: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Hebr St 301</td>
<td>Modern Hebrew Literature I in Hebrew</td>
</tr>
<tr>
<td>Hebr St 302</td>
<td>Modern Hebrew Literature II in Hebrew</td>
</tr>
<tr>
<td>Hebr St 303</td>
<td>Modern Hebrew Literature I in English</td>
</tr>
<tr>
<td>Hebr St 304</td>
<td>Modern Hebrew Literature II in English</td>
</tr>
<tr>
<td>Hebr St 321</td>
<td>The Holocaust and the Politics of Memory</td>
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<tr>
<td>Hebr St 332</td>
<td>Women in the Bible</td>
</tr>
<tr>
<td>Hebr St 381</td>
<td>Honors Seminar: (Subtitle)</td>
</tr>
<tr>
<td>Hebr St 418</td>
<td>Modern Hebrew Drama in Translation</td>
</tr>
<tr>
<td>Hebr St 419</td>
<td>Contemporary Israeli Poetry in Translation</td>
</tr>
<tr>
<td>Hist 274*</td>
<td>Ancient Egyptian Civilization</td>
</tr>
<tr>
<td>Hist 280**</td>
<td>Islamic Civilization: The Formative Period, ca. 500-1258</td>
</tr>
<tr>
<td>Hist 281**</td>
<td>Islamic Civilization: The Middle Period, ca. 1200-1805</td>
</tr>
<tr>
<td>Hist 282**</td>
<td>The Modern Middle East in the Nineteenth and Twentieth Centuries</td>
</tr>
<tr>
<td>Hist 283</td>
<td>Arab-Israeli Relations: The Search for Peace</td>
</tr>
<tr>
<td>Hist 319</td>
<td>The Era of the Crusades</td>
</tr>
<tr>
<td>Hist 370</td>
<td>Topics in the History of Religious Thought: (with appropriate subtitle, e.g., &quot;Judaism in the Ancient World&quot;)</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Hist 386</td>
<td>Africa: The Age of Empires to 1880</td>
</tr>
<tr>
<td>Hist 387</td>
<td>Africa: Imperialism and Independence Since 1880</td>
</tr>
<tr>
<td>Hist 401</td>
<td>Topics in Middle Eastern History: (Subtitle)</td>
</tr>
<tr>
<td>Hist 600</td>
<td>Seminar in History: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Hist 892</td>
<td>Colloquium in Medieval Islam: (Subtitle; when carrying undergraduate credit for undergraduate students)</td>
</tr>
<tr>
<td>Intl St 350</td>
<td>Regional Seminar in International Studies: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Intl St 450</td>
<td>Internship in International Studies: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Intl St 550</td>
<td>Senior Seminar in International Studies: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Jewish 261</td>
<td>Representing the Holocaust in Words and Images</td>
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<tr>
<td>Jewish 268</td>
<td>Jewish and Christian Responses to the Holocaust</td>
</tr>
<tr>
<td>Philos 452</td>
<td>Special Topics in Ancient and Medieval Philosophy: (with subtitle &quot;Maimonides&quot;)</td>
</tr>
<tr>
<td>Philos 461</td>
<td>Islamic Philosophy and Mysticism</td>
</tr>
<tr>
<td>Philos 507</td>
<td>Special Problems in Philosophy of Religion: (with appropriate subtitle)</td>
</tr>
<tr>
<td>Pol Sci 327</td>
<td>Politics of the Middle East and North Africa</td>
</tr>
<tr>
<td>Pol Sci 329 (660)</td>
<td>African Politics</td>
</tr>
<tr>
<td>Pol Sci 371</td>
<td>Nationalism and Ethnic Conflict</td>
</tr>
</tbody>
</table>

* Jointly offered; may be taken under only one area.
** If not taken under Section II.

Web Home Pages:
[ College of Letters & Science ]  

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:  
Middle Eastern and North African Studies  
[ College of Letters & Science ]  
[ Schools and Colleges ]  
[ Contents | How to Use This Book | Calendar ]  
[ Admission | Registration | Financial Information | Academic Information ]  
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]  

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UWM Undergraduate Catalog 2014-2015

College of Letters & Science

Military Science

- Army ROTC
- Air Force ROTC

Army ROTC

The ROTC program provides University students with leadership, management, and tactical skills which enable transition to military duty.

ROTC is not a major field of study. Rather, it is a program in which students pursue a baccalaureate degree and take leadership, management, and other military-oriented courses that qualify them to accept a commission as an officer in the U.S. Army, Army Reserve, or National Guard upon graduation. The program provides a general knowledge of the contemporary role of the Army in support of national objectives and affords a practicum in leadership and management skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program is divided into two parts, the basic course (freshman and sophomore years) and the advanced course (junior and senior years). Both courses are administered at Marquette University. Students enrolled in ROTC must pay a one-time, $25 part-time studies application fee. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

The Army ROTC program offers scholarship opportunities to qualified students. Scholarships vary in length and pay a predetermined amount for tuition, books, and fees. Students also may be members of reserve or national guard units while taking the advanced course under the Simultaneous Member Program. Advanced course students receive $100 per month for up to 20 months.

Basic Course. Students enrolled in the ROTC basic course have no military obligation.

Advanced Course. Successful completion of the ROTC advanced course leads to a commission as a Second Lieutenant upon graduation from UWM in the Regular Army, Army Reserve, or National Guard. In addition to fulfilling program requirements, advanced-course students attend an advanced camp for six weeks at Fort Lewis, Washington, during the summer between the junior and senior years.

To qualify for entry into the advanced course, students must either complete successfully the basic course and the Army ROTC basic camp at Fort Knox, Kentucky, or receive constructive credit for the basic course for veteran status or high school ROTC experience.

Veterans and students with high school ROTC experience may be given constructive credit for the ROTC basic course, as determined on an individual basis by the professor of military science, enabling them to enter the advanced course at the beginning of the junior year.

For more information about enrolling in either the basic or the advanced course, contact the Marquette University Department of Military Science, 1508 W. Clybourn St., Milwaukee, WI 53233, (414) 288-7195.

Air Force ROTC
UWM students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four-, three-, and two-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course, in addition to a four-week summer field-training program between their second and third years in the program. Two-year students complete only the professional officer course, but have a five-week summer field-training program before entering the professional officer course.

General qualifications:

- Be a full-time student;
- Be a United States citizen (for scholarship appointment);
- Be in good physical condition;
- Be of good moral character;
- For pilot or navigator training, fulfill all commissioning requirements before age 26 1/2;
- For scholarship recipients, fulfill all commissioning requirements before age 27 on June 30 in the estimated year of commissioning; and
- For non-scholarship students, fulfill all commissioning requirements before age 30.

General Military Course. The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

Field Training. AFROTC Field Training is offered during the summer months at selected Air Force bases throughout the U.S. and provides leadership and officership training in a structured military environment. Major areas of study include physical training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

Professional Officer Course. The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a nontaxable subsistence allowance of $200 per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

Leadership Laboratory. Leadership laboratory is a cadet-centered activity. It is largely cadet planned and directed, in line with the premise that it provides leadership training experience that will improve a cadet's ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information and other services that will increase the performance and motivation of other cadets.
AFROTC College Scholarship and Scholarship Action Programs. These programs provide scholarships to selected students participating in AFROTC. While participating in AFROTC, students receive $200 per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:

- Be a U.S. citizen;
- Be at least 17 years of age on the date of enrollment and under 27 years of age on June 30 of the estimated year of commissioning;
- Pass an Air Force physical exam;
- Be selected by a board of Air Force officers;
- Have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious objectors);
- Achieve a passing score on the Air Force Officer Qualifying Test; and
- Maintain a quality grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year; pre-applicant questionnaires are available from high school guidance counselors or any Air Force recruiting office. Completed pre-applicant questionnaires should be mailed as soon as possible (to meet the earliest selection board) but will not be accepted if mailed after December 1 of the year before entering college. For students already enrolled at UWM, three- and two-year scholarships are available. Applications are submitted directly to the Department of Aerospace Studies at Marquette University.

For more information, contact the Department of Aerospace Studies at Marquette University, (414) 288-7682.
The Certificate Program in Premedical Studies is founded on the belief that science knowledge alone does not prepare students to become effective physicians. Students need to have insight into and sensitivity to the emotional, cultural, and environmental factors that motivate the behaviors of the people who will be their patients. They must have a genuine concern for them as individuals, and an ability to communicate with them in ways that respect their beliefs and attitudes. The development of the student’s humanistic side is a high priority in the education of future physicians through this certificate program.

To obtain the certificate, students must have earned a baccalaureate degree, either previously or concurrently with the awarding of the certificate. Students may enter the certificate program as new freshmen, as continuing students if they have earned a 3.25 GPA overall and in the required science/math courses, and as post-baccalaureate students who have earned an undergraduate GPA of 3.0 (3.25 is preferred) on their first degree. To remain in the program in good standing, students must maintain a 3.25 GPA overall and in required science/math courses. Students who fall below a 3.25 in either GPA in any semester are granted one semester of probation in which to raise the GPA above 3.25. If they do not do so, they are dropped from the program but may reenter at any time that the GPA once again meets or exceeds 3.25.

**General Credit Requirements**

Students will complete approximately 21 credits beyond the minimum requirements for admission to medical school in meeting the requirements of the Certificate in Premedical Studies. At least 35 credits, including at least 8 of the minimum of 15 advanced credits required, must be taken at UWM.

**Required Courses**

Students must complete all prerequisite courses for admission to medical school. These include:

- **BIO SCI 150, 152**  
  Foundations of Biological Sciences I & II
- **BIO SCI 325 (260)**  
  Genetics

At least one Biological Science advanced-level course with lab selected from:

- **BIO SCI 315/316**  
  Cell Biology/Laboratory in Genetics and Cell Biology
- **BIO SCI 370/372**  
  Animal Physiology/Animal Physiology Laboratory
- **BIO SCI 383 (303)**  
  General Microbiology
- **BIO SCI 401/402**  
  Immunology/Immunological Techniques
- **CHEM 102, 104**  
  General Chemistry and Quantitative Analysis
- **CHEM 343, 344, 345**  
  Organic Chemistry

English composition at the 102 level or above

English, any other course, for three credits

- **MATH 116, 117**  
  College Algebra and Trigonometry
  OR
- **MATH 211**  
  Survey in Calculus and Analytic Geometry
  OR
- **MATH 221**  
  Honors Calculus I
  OR
- **MATH 231**  
  Calculus and Analytic Geometry

**PHYSICS 120, 121, 122, 123**  
General Physics I and II (Non-Calculus Treatment)

OR
PHYSICS 209, 210, 214, 215 Physics I and II (Calculus Treatment)
In addition, students must complete the following courses:

ANTHRO 104 Lifeways in Different Cultures: A Survey of World Societies
One of the following three courses:
CHEM 501 Introduction to Biochemistry (or other advanced-level biochemistry course)
OR
PHYSICS 305 (405) Medical Physics
OR
PHYSICS 306 Biophysics
COMMUN 103 Public Speaking
HIST 229 History of Race, Science, and Medicine in the U.S.
PH 101 Introduction to Public Health
One of the following three courses:
PHILOS 241 Introductory Ethics
OR
PHILOS 243 Moral Problems (for 3 credits)
OR
PHILOS 244 Ethical Issues in Health Care
PSYCH 101 Introduction to Psychology

Required Enriching Experiences

1. Participation in an independent study or research project in a natural science, psychology, or other approved area (students may earn 3 cr. through departmental 699 or other research course);

2. Participation in the UWM/Milwaukee County Medical Society Mentor Program; and

3. Certification of 112 hours of volunteer work or employment in a health care setting (students may earn 3 credits toward the degree through EdPol 202, Volunteers for Credit, to obtain this certification).
Public and Nonprofit Administration

- Web Home Pages:
  - College of Letters & Science
  - Public and Nonprofit Administration
- Courses: Public Administration (PUB ADM)
- Faculty

Douglas Ihrke, PhD, Professor, Chair and Director of Nonprofit Administration
Alumni House 381, Phone: (414) 229-3167, Fax: (414) 229-2353

John Bohte, PhD, Professor, Director of Public Administration
Mitchell Hall, Room 225, Phone: (414) 229-4328

The public and nonprofit administration unit (PNA) houses several graduate programs, but also offers some courses at the undergraduate level. PNA oversees the following graduate programs:

- Master of Science in Nonprofit Management and Leadership
- Master of Public Administration
- Graduate Certificate in Nonprofit Management

PNA also partners with the Department of Urban Planning to offer a coordinated Master of Public Administration/Master of Urban Planning program.

Undergraduate courses in public administration will provide a background for students interested in pursuing graduate degrees in the field as well as for those who wish to enhance their studies in another program with an understanding of the administration of public and nonprofit programs.

Courses: Public Administration (PUB ADM)

Faculty

Fredrik Andersson, Asst. Prof., PhD
University of Missouri-Kansas City

John Bohte, Assoc. Prof., PhD
Texas A&M University
Director, Public Administration

Grace Chikoto, Asst. Prof., PhD
Georgia State University

Marcus Ethridge, Prof. Emeritus, PhD

Douglas M. Ihrke, Prof., PhD, Chair
Northern Illinois University
Director, Nonprofit Administration

Affiliate Faculty
Students wishing to become dentists should consult the advisor early in their undergraduate career for help in planning a program. Later, the advisor also can assist students in applying to schools of dentistry.

Most schools of dentistry require a minimum of three years of undergraduate work. Pre-dental students who decide to become degree candidates must fulfill all degree requirements.

The 90 credits required for admission to most schools of dentistry include the following courses: 1 year of English; 2-2.5 years of chemistry, including inorganic and organic chemistry; 1 year of biology (more is advised); 1 year of physics. Most dental schools require mathematics at least through precalculus. All science courses must include laboratory work.

### Science Courses That Satisfy Dental School Admission Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio Sci 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>Bio Sci 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
</tbody>
</table>

At least one advanced course in biological sciences:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio Sci 352</td>
<td>Vertebrate Form and Function</td>
<td>4</td>
</tr>
<tr>
<td>Bio Sci 370</td>
<td>Animal Physiology</td>
<td>4</td>
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</tbody>
</table>

Chemistry Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>Chem 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>Chem 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>Chem 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
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<tr>
<td>Chem 345</td>
<td>Organic Chemistry</td>
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Physics Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Physics 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>Physics 121</td>
<td>General Physics Laboratory I (Non-Calculus Treatment)</td>
<td>1</td>
</tr>
<tr>
<td>Physics 122</td>
<td>General Physics II (Non-Calculus Treatment)</td>
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<tr>
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<td>General Physics Laboratory II (Non-Calculus Treatment)</td>
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<tr>
<td>Course Code</td>
<td>Course Name</td>
<td>Credits</td>
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</tr>
<tr>
<td>Physics 209</td>
<td>Physics I (Calculus Treatment)</td>
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<tr>
<td>Physics 210</td>
<td>Physics II (Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>Physics 214</td>
<td>Lab Physics I (Calculus Treatment)</td>
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</tr>
<tr>
<td>Physics 215</td>
<td>Lab Physics II (Calculus Treatment)</td>
<td>1</td>
</tr>
</tbody>
</table>

Students must achieve satisfactory scores on the Dental Admission Test (DAT). The advisor can provide information regarding the administration of this test. In addition, students are advised to take elective credits to ensure a broad liberal education.
The University of Wisconsin-Milwaukee does not offer a degree in forestry or wildlife management. However, the subjects listed below correspond closely to the requirements of the first two years of forestry and wildlife management curricula in institutions offering such degree programs.

Students are advised to confer with the pre-forestry advisor no later than the second semester of the freshman year about the specific requirements of the natural resources institution to which they plan to transfer. This should enable them to plan a course of study for the sophomore year at UWM that will satisfy these specific requirements.

Since many schools require attendance at a camp during the summer following the sophomore year, students are advised to consult at an early date with the institution to which they plan to transfer.

Completion of Chem 100 and Math 105 (or appropriate placement scores) is the prerequisite for beginning the chemistry courses required for the pre-forestry program.

**RECOMMENDED CURRICULUM FOR THE PRE-FORESTRY PROGRAM**

**Freshman Year**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 102 &amp; 104</td>
<td>General Chemistry/Qualitative Analysis</td>
<td>10</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>College Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 206</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 116/117</td>
<td>College Algebra/Trigonometry</td>
<td>5</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 211</td>
<td>Survey in Calculus and Analytic Geometry</td>
<td>4</td>
</tr>
<tr>
<td>POL SCI 104</td>
<td>Introduction to American Government and Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total: 28-30

**Sophomore Year**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUN 101</td>
<td>Introduction to Interpersonal Communication</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMOMUN 103</td>
<td>Public Speaking</td>
<td>3</td>
</tr>
<tr>
<td>COMPSCIi 132</td>
<td>Introduction to Computers and Programming</td>
<td>2</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Credits</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>ECON 103</td>
<td>Principles of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEO SCI 100</td>
<td>Introduction to the Earth</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOG 120</td>
<td>Our Physical Environment</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOCIOL 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>Electives</td>
<td></td>
<td>6-9</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>27-30</td>
</tr>
</tbody>
</table>

1 Possible electives include the following courses (Contact the Program coordinator for information on other elective courses.):

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 310</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 325 (260)</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 407</td>
<td>Plant Systematics and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 408</td>
<td>Dendrology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 500</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIO SCI 511</td>
<td>Ichthyology</td>
<td>3</td>
</tr>
<tr>
<td>CES 471</td>
<td>Principles of Natural Resources Management</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 475</td>
<td>Geography of Soils</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEO SCI 401</td>
<td>General Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>MTHSTAT 215</td>
<td>Elementary Statistical Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

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University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Pre-Forestry (Wildlife Management)
[ College of Letters & Science ]
[ Schools and Colleges ]
[ Contents | How to Use This Book | Calendar ]
[ Admission | Registration | Financial Information | Academic Information ]
[ Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources ]

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Unlike other pre-professional programs, there is no specific curriculum or set of courses required of pre-law students. The law relates to many aspects of human activity, and law schools look for diversity in the educational background of their students. However, some broad generalizations can be made about the most desirable kind of pre-law training.

Students should develop a high degree of competence in reading and writing the English language and in the skills of critical analysis and logical reasoning. Courses in literature, composition, communication, mathematics, and philosophy are obvious components in a rigorous pre-law curriculum. Pre-law students also should obtain a sound grounding in the economic, social, and political institutions of the United States, and an introductory course in accounting may strengthen their application to some law schools. It should be noted that these general guidelines are not intended to suggest or dictate the choice of academic major; that choice should emerge from the student’s own field of interest.

Virtually all law schools require that applicants take the Law School Admission Test (LSAT), given four times yearly, usually during the months of June, October, December, and February. Information about and applications for this test may be obtained from the pre-law advisor or from any law school. Ideally, the LSAT should be taken in June or October, one year prior to the fall of intended admission. December is the latest date the LSAT can be taken for meeting admission application deadlines, which may be as early as January 15.

Two factors play primary roles in determining admission to law schools: academic performance as measured by the grade point average and score on the LSAT. The quality and rigor of the undergraduate program also will be considered. Minority group students are encouraged to see the pre-law advisor about making application to the Council on Legal Education Opportunity (CLEO) summer institutes.

Information on application procedures and the Law School Admission Test may be obtained from the pre-law advisor in Letters & Science advising. Law school bulletins and other publications are available for reference.
Pre-Medicine

Patricia Cobb, Senior Student Services Coordinator, Student Academic Services, Premedical Advisor, HLT 131, (414) 229-3922, pacobb@uwm.edu, www.premed.uwm.edu

Students wishing to become physicians should consult the premedical advisor early in their undergraduate career for help in planning a program. An appointment with the advisor each semester is recommended strongly. Later, the advisor also can assist students in the application process.

A majority of students admitted to American medical schools hold a baccalaureate degree. An especially well-prepared student occasionally is admitted at the end of the junior year, but premedical students should plan to fulfill all degree requirements.

Almost all medical schools require that applicants take the Medical College Admission Test (MCAT). Premedical students normally should arrange to take this test at the end of their junior year. The premedical advisor can provide information regarding the administration of this test.

Most medical schools consider the following as minimal preparation for admission: 1 year of English; mathematics at least through precalculus; 2-2 Â½ years of chemistry, including inorganic and organic chemistry; 1 year of biology (more is advised); 1 year of physics. For most medical schools, science courses must include laboratory work.

Effective 2015, the MCAT will include a social/behavioral science component and additional chemistry. To be well-prepared for this new version of the exam, students are advised to complete Psych 101, Sociol 101, Public Health 101, and Chem 501 (biochemistry).

Some medical schools specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, premedical students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly. A list of all medical college admission requirements is located in the College advising office.

Science Courses That Satisfy Medical School Admission Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO SCI 150</td>
<td>Foundations of Biological Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>BIO SCI 152</td>
<td>Foundations of Biological Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>One advanced course in Bio Sci with lab</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td>CHEM 102</td>
<td>General Chemistry</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 104</td>
<td>General Chemistry and Qualitative Analysis</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 343</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 344</td>
<td>Organic Chemistry Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 345</td>
<td>Organic Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 501</td>
<td>Introduction to Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>Math â€“ a semester of calculus</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PHYSICS 120</td>
<td>General Physics I (Non-Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 121</td>
<td>General Physics Laboratory (Non-Calculus Treatment)</td>
<td>1</td>
</tr>
<tr>
<td>PHYSICS 122</td>
<td>General Physics II (Non-Calculus Treatment)</td>
<td>4</td>
</tr>
<tr>
<td>PHYSICS 123</td>
<td>General Physics Laboratory (Non-Calculus Treatment)</td>
<td>1</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYSICS 209</td>
<td>General Physics I (Calculus Treatment)</td>
<td>4</td>
</tr>
</tbody>
</table>
Although the courses listed above are mandatory for admission to almost all American medical schools, the rest of the program can be whatever the student wishes. Students are not required to major in biology or chemistry in order to gain admission to medical school.

Students who pursue this field of study also may be interested in the Premedical Certificate Program described elsewhere in this catalog.
UWM Undergraduate Catalog 2014-2015

College of Letters & Science

Pre-Pharmacy

Laura Stark, Academic Advisor, Student Academic Services, Pre-pharmacy Advisor, (414) 229-5442, starkl@uwm.edu

UWM offers all of the prerequisite coursework necessary for students to apply to professional pharmacy schools/colleges throughout the country. The University also offers a unique course for pre-pharmacy students entitled "Introduction to the Practice of Pharmacy." This course combines lectures with clinical rotations through a variety of actual pharmacy settings.

There are only two pharmacy programs in the state of Wisconsin, one at the University of Wisconsin-Madison and one at Concordia University of Wisconsin (Mequon, WI). The Concordia program will be reviewed for final accreditation status in 2014-15.

Entrance to pharmacy school is very competitive and requires strong grades and satisfactory scores on the Pharmacy College Admission Test (PCAT). Although specific admission requirements may vary among schools, the following minimum science requirements are universal:

- One year (two semesters) general biology with lab (Bio Sci 150 and 152);
- One year (two semesters) general chemistry with lab (Chem 102 and 104);
- One year (two semesters) organic chemistry with lab (Chem 343, 344, and 345);
- One year (two semesters) physics with lab (Physics 120/121 and 122/123 or Physics 209/214 and 210/215); and
- One semester of calculus (Math 231 or Math 221 or Math 225/226).

Other common course requirements include (but are not limited to) the following:

- English 101 and 102 (see advisor for additional information relating to UW-Madison's pharmacy program);
- Anatomy and physiology (Bio Sci 202 and 203);
- Microbiology (Bio Sci 101 and/or 383);
- Biochemistry (Chem 501);
- Statistics (MthStat 215);
- Coursework in social sciences (Econ 103, Anthro 102 or Sociol 101, Psych 101);
- Coursework in humanities (e.g., history, philosophy);
- Coursework in communication (Commun 101, 103, 105, 350); and
- Coursework designated as satisfying the cultural diversity requirement.

Due to the variance in admission requirements, it is very important that students consult with the pre-pharmacy advisor every semester.
Other Pre-Professional Health Study

Students interested in chiropractic medicine, optometry, physician assistant, and podiatry can fulfill the admission requirements of these professional programs in the College of Letters & Science. Information concerning these requirements and the admission tests for the professional schools is available in the Student Academic Services office. The advisor for these areas is Patricia Cobb.

See also the Colleges of Health Sciences and Nursing elsewhere in this catalog for information on health studies programs that students can complete at UWM.
Students wishing to become veterinarians should consult the pre-vet advisor early in their undergraduate career for help in planning a program. Later, the advisor also can assist students in the application process.

Hands-on experience is a very important factor of the admissions decision at most schools of veterinary medicine. Students are strongly encouraged to participate in voluntary or paid vet-related activities. Working with a veterinarian also will help you decide if veterinary medicine is the career for you.

Applicants to most schools of veterinary medicine must complete a minimum of 60 credits of college coursework prior to the start of their first semester in veterinary school. These 60 credits must include the required courses listed below and 17-20 elective credits. Pre-vet students who decide to earn a bachelor’s degree must fulfill all degree requirements. A majority of students admitted to American schools of veterinary medicine hold a baccalaureate degree. An especially well-prepared student occasionally is admitted at the end of the junior year, but pre-vet students should plan to fulfill all degree requirements.

All American schools of veterinary medicine require that applicants take the Graduate Record Examination (GRE). Pre-vet students normally should arrange to take this test at the end of their junior year. The pre-vet advisor can provide information regarding the administration of this test.

Some schools of veterinary medicine specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, pre-vet students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

Required Coursework for Admission to Schools of Veterinary Medicine:

- BIO SCI 150  Foundations of Biological Sciences I  4
- BIO SCI 152  Foundations of Biological Sciences II  4
- BIO SCI 325  Genetics  3
- CHEM 102  General Chemistry  5
- CHEM 104  General Chemistry and Qualitative Analysis  5
- CHEM 343  Organic Chemistry  3
- CHEM 344  Organic Chemistry Laboratory  2
- CHEM 345  Organic Chemistry  3
- CHEM 501  Biochemistry  3
- PHYSICS 120  General Physics I (Non-Calculus Treatment)  4
- PHYSICS 122  General Physics II (Non-Calculus Treatment)  4
- Statistics (MTHSTAT 215 or any Statistics course)  3
- English (ENGLISH 101, 102, or appropriate score on placement exam)  6

Although the courses listed above are mandatory for admission to almost all American schools of veterinary medicine, the rest of the program can be whatever the student wishes. Students are not required to major in biology in order to gain
admission to vet school.
Students completing this program of study earn the Certificate in Russian and East European Studies. The certificate program is designed for students majoring in any field, but specifically for those majoring in Russian, political science, history, geography, and international studies, as well as for non-majors. Its purpose is to enable students interested in the Russian and East European area to take a coordinated series of courses and to receive a formal certificate signifying this specialization.

The Russian and East European Studies Certificate Program is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular university admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

To obtain the certificate, students must complete at least 18 credits including the requirements in either of the following two tracks:

**Track One**

1. 9 credits in upper-division courses from the appended list of courses in area history, political science, geography, and foreign languages and literature, or substitutes as approved by the committee.

2. Demonstrated mastery of one of the languages of the region, as measured by the committee. In the past, this level of proficiency was usually achieved by successfully completing 4 semesters of classroom study in the language. Note: Should a student already have a demonstrated mastery of one of the languages in the area without needing formal coursework, he/she will be required to complete 9 additional credits in courses approved for the certificate.

**Track Two**

1. 9 credits in upper-division courses from the appended list of courses in area history, political science, geography, and foreign languages and literature, or substitutes approved by the committee.

2. An additional 6-9 credits in courses covering the area from the appended list of courses, or substitutes approved by the committee.

In both tracks, students must complete at least 18 credits in courses approved for the certificate, including at least 9 advanced (numbered 300 and above) credits completed successfully at UWM.

In both tracks, students must achieve a minimum grade point average of 2.75 in all courses taken for the certificate, including language courses.
Students should be aware that not all certificate courses are taught regularly. They are advised, therefore, to plan well ahead in choosing courses needed for the certificate. A maximum of 3 credits in advanced independent study courses (699) may be applied toward completion of certificate requirements. Other appropriate courses taught by the area faculty, but not on the list, may be taken with the approval of the faculty coordinator. When necessary, requests for other substitute courses will be considered by the committee, provided they are made well in advance of graduation.

Exit Survey

Students in both tracks are required to complete an exit survey upon completion of their required coursework. The assessment process allows certificate students to reflect on their experiences while providing important information to help improve the program.

The exit survey is conducted online for a limited period of time during the fall and spring semesters. Students who are about to complete or have finished all coursework should contact Tracy Buss (tbuss@uwm.edu) concerning the exit survey.

Please note: The exit survey is a program requirement. Failure to complete the survey prior to graduation will delay processing of the graduation clearance.

Courses Approved for the Certificate Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethnic 250</td>
<td>Selected Topics in Ethnic Studies: “Ethnic Processes and Nationalism - Russia and the Former USSR” subtitle and other appropriate subtitles</td>
<td>3</td>
</tr>
<tr>
<td>Hist 239</td>
<td>Poland and Its Neighbors, 1795 -1914</td>
<td>3</td>
</tr>
<tr>
<td>Hist 295</td>
<td>Historical Encounters (with Russian and/or East European subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Hist 340</td>
<td>Early Russia Through Ivan the Terrible, Peter the Great, and Catherine the Great</td>
<td>3</td>
</tr>
<tr>
<td>Hist 341</td>
<td>Imperial Russia</td>
<td>3</td>
</tr>
<tr>
<td>Hist 343</td>
<td>Russia Since 1917</td>
<td>3</td>
</tr>
<tr>
<td>Hist 345</td>
<td>The Modern Balkans: War and Democracy</td>
<td>3</td>
</tr>
<tr>
<td>Hist 346</td>
<td>Poland and Its Neighbors, 1914-1945</td>
<td>3</td>
</tr>
<tr>
<td>Hist 348</td>
<td>Poland and Its Neighbors, 1945 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>Intl St 550</td>
<td>Senior Seminar in International Studies (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Polish – all courses</td>
<td>Politics of Eastern Europe</td>
<td>3</td>
</tr>
<tr>
<td>Pol Sci 302</td>
<td>Russian and Post-Soviet Politics</td>
<td>3</td>
</tr>
<tr>
<td>Pol Sci 310</td>
<td>Russian Foreign Policy</td>
<td>3</td>
</tr>
<tr>
<td>Pol Sci 311</td>
<td>Politics of Authoritarian Regimes</td>
<td>3</td>
</tr>
<tr>
<td>Pol Sci 312</td>
<td>Seminar in Comparative Politics (with Russian and/or Eastern European subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Russian – all courses</td>
<td>Senior Seminar in International Studies (with appropriate subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>Slavic Languages – all courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ukrainian – all courses</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Web Home Pages:
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[ Russian and East European Studies ]

University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
Russian and East European Studies
[ College of Letters & Science ]
Scandinavian Studies

Veronica Lundback, Lecturer, German, Department of Foreign Languages and Literature, Coordinator; CRT 896, (414) 229-4547, lundback@uwm.edu

The Scandinavian Studies Certificate Program is open to all students seeking a bachelor's degree from UWM and to students who previously received a bachelor's degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree receive the certificate upon completion of the program requirements.

The majority of the certificate requirements may be completed at Mälardalen University, UWM's sister university in Sweden. Students attending Mälardalen University pay UWM tuition and take courses on the Swedish language and Scandinavian culture. Students also may take courses in pursuit of their other academic interests, either in Swedish or in English.

Scandinavian Languages: 6 credits

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCNDVST 101 (GERMAN 180)</td>
<td>First Semester Swedish</td>
<td>3</td>
</tr>
<tr>
<td>SCNDVST 102 (GERMAN 180)</td>
<td>Second Semester Swedish</td>
<td>3</td>
</tr>
<tr>
<td>SCNDVST 203 (GERMAN 180)</td>
<td>Third Semester Swedish</td>
<td>3</td>
</tr>
<tr>
<td>SCNDVST 204 (GERMAN 180)</td>
<td>Fourth Semester Swedish</td>
<td>3</td>
</tr>
</tbody>
</table>

Scandinavian Studies: 12 credits (may include additional language courses)

Courses may also be selected from the approved list (below) or from other appropriate courses identified and approved by the program coordinator.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLIT 240</td>
<td>Norse Mythology</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 239</td>
<td>Geography of Scandinavia</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 114</td>
<td>Scandinavian Life and Culture</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 115</td>
<td>Seminar on Scandinavian Culture (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 270</td>
<td>German Myths and Legends: &quot;The Vikings&quot; subtitle</td>
<td>3</td>
</tr>
<tr>
<td>GERMAN 699</td>
<td>Independent Study: &quot;Hans Christian Andersen&quot; and/or &quot;Nineteenth Century Scandinavian Literature&quot; subtitles [Additional appropriate courses may be offered under this rubric.]</td>
<td>3</td>
</tr>
<tr>
<td>HIST 371</td>
<td>Topics in European History: &quot;History of the Vikings&quot; subtitle</td>
<td>3</td>
</tr>
<tr>
<td>PHILOS 433</td>
<td>Nineteenth Century Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>OR PHILOS 435</td>
<td>Existentialism</td>
<td>3</td>
</tr>
<tr>
<td>OR PHILOS 453</td>
<td>Special Topics in the History of Modern Philosophy: (with appropriate subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

Scandinavian studies courses completed elsewhere, with the approval of the program coordinator, will be accepted in partial fulfillment of the requirements of the certificate.

Courses
Adult/University-Level TESOL (Teaching English to Speakers of Other Languages)

Sandra Pucci, Associate Professor, Linguistics, CRT 537, (414) 229-6166, pucci@uwm.edu

The Adult/University-Level TESOL Undergraduate Certificate Program is designed to meet the needs of students who wish to teach English as a Second Language (ESL) to adults or university-level students abroad. The program is open to undergraduates with at least junior standing, to post-baccalaureate special students, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular university admission requirements. Graduate students or post-baccalaureate non-degree students should pursue instead the "Adult/University-Level TESOL Graduate Certificate Program." Training in the graduate certificate program is more rigorous, and some credits earned can be transferred to the Linguistics Department MA program.

Admission

Students who wish to apply to the program should submit the following materials to the TESOL Certificate Program coordinator in the Department of Linguistics:

a. Adult/University-Level TESOL Undergraduate Certificate Program application form (available from the TESOL Certificate Program Coordinator);

b. Transcripts of all college-level academic work, with evidence of a GPA of 2.5 or better;

c. A statement of purpose; and

d. Two letters of recommendation from persons knowledgeable about the applicant’s recent academic and/or work experience.

Applicants who are not native speakers of English also should submit scores of least 550 on the TOEFL exam and 45 on the TSE.

Credits and Courses

Students are required to complete the six courses (18 credits) plus teaching internship (3 credits) outlined below. All credits must be completed with a GPA of 3.0 or better.

LINGUIS 350    Introduction to Linguistics
LINGUIS 410    Literacy, Grammar, and Methodologies in ESL Education
LINGUIS 420    Introduction to Second Language Acquisition
ENGLISH 565/ LINGUIS 565 (426)    Introduction to Adult/University-Level TESOL

One of the following two courses:
One elective selected from the following:

- ENGLISH 404 Language, Power, and Identity
- LINGUIS 415 First Language Acquisition
- LINGUIS 460 Sounds and Sound Systems
- LINGUIS 464 Word and Sentence Structure
- LINGUIS 468 Language in Its Various Forms: (subtitle)
- LINGUIS 470 Historical/Comparative Linguistics
- LINGUIS 560 Advanced Phonology
- LINGUIS 564 Advanced Syntax

The following internship course:

- ENGLISH/LINGUIS 569 Internship in Teaching ESL to Adult Learners

The teaching internship is completed at one of the internship institutions affiliated with the certificate program. The site of the internship may be chosen by the student, but it must be approved by the certificate program staff. The student is expected to complete between 40 and 60 hours of supervised teaching over a period of four to eight weeks.

Undergraduate students concurrently completing a bachelor’s degree receive the certificate upon completion of their degree requirements; post-baccalaureate special students and non-degree students receive the certificate upon completion of the required coursework and internship.

Students who previously have taken any of the required courses while enrolled as non-degree undergraduate students or students in other undergraduate programs at UWM may transfer the credits earned into the certificate program, so long as the courses have been taken within the last five years. Students who have taken comparable undergraduate-level courses at other institutions may be allowed to transfer in up to 6 credits of coursework, upon approval of the certificate program coordinator.

There is a time limit of three years from initial enrollment for completion of the certificate.
Translation and Interpreting Studies

- Web Home Pages:
  - College of Letters & Science
  - Translation and Interpreting Studies
- Courses: Translation (TRNSLTN)
- Faculty

Translation and Interpreting Studies offers a Master of Arts in Language, Literature, and Translation or a graduate Certificate in Translation. Undergraduate students interested in translation, or those who are proficient in a language other than English and would like to supplement their majors with career-relevant work related to translation, may enroll in Translation courses numbered below 700. For further information on translation, contact Lorena Terando, CRT 807, (414) 229-5968, terando@uwm.edu.

Courses (TRNSLTN)

Faculty and Staff

Leah Leone, Asst. Prof., PhD
University of Iowa

Amy Schleicher, Lect., MA
University of Wisconsin-Milwaukee

Kate Scholz, Lect., MA
University of Minnesota

Lorena Terando, Assoc. Prof., PhD
State University of New York at Binghamton

Chantal Wright, Asst. Prof., PhD
University of East Anglia, Norwich, U.K.

Magaly Zeise, Lect., MA
Universidad Pedagógica Nacional, Colombia
Urban Studies

Urban Studies is a committee interdisciplinary major offered by the Urban Studies Program. It provides the opportunity for students to explore scholarship on cities, suburban communities, and metropolitan regions with an interdisciplinary lens. See the Urban Studies section of the catalog for more details concerning this major program.
College of Letters & Science

Urban Studies Certificate

James Harris, Associate Director, Urban Studies Programs, Coordinator, BOL 702, (414) 229-4629, jmh@uwm.edu

The Certificate in Urban Studies provides the undergraduate student with a coordinated core of courses that focus on urban issues and policy alternatives examined from a variety of humanistic, social scientific, and professional perspectives. Particular emphasis is placed on the impact of gender, racial, and ethnic diversity within the context of urban policy choices and delivery. This certificate will be of interest especially to those students considering careers in urban areas and as a supplement to majors in the arts and sciences or professions.

The urban studies certificate program is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements.

Program Requirements

1. Completion of 18 credits in approved urban studies courses with a minimum GPA of 2.5.
2. Completion of Urb Std 250 (Exploring the Urban Environment), Urb Std 193 (First-Year Seminar), or Urb Std 360 (Perspectives on the Urban Scene).
3. Of the 18 credits, 6 must be in the humanities and 6 in the social sciences, and 9 must be at the 300 level or above taken in residence at UWM. It is recommended that the student also complete one course in the natural sciences.
4. No more than 9 credits from any one department outside Urban Studies may count toward the certificate.
5. A maximum of 6 credits in independent study may be taken. In the senior year, a student may plan an independent study course to synthesize previous work in urban studies.
6. An internship in Urb Std 289 or 489 is recommended highly.
7. While students may elect courses outside the College of Letters & Science to count toward the certificate, at least 12 credits must be completed in L&S courses, at least 6 of these at the 300 level or above.
8. Credits earned at other institutions in equivalent urban studies programs and accepted by UWM as transfer credits may count in partial fulfillment of the certificate requirements.

Urban Studies Approved Courses

The following courses in the College of Letters & Science are approved to count toward the Urban Studies Certificate. Each semester, the Advisory Committee will review and approve variable content course sections for the Certificate. Contact the Urban Studies Program for the most current list of approved courses.

AFRICOL 300 Urban Violence
AFRICOL 319 History of Blacks in the American City
Aricol 341 Black Politics and City Government
AFRICOL 372 African American Literary Movements: Harlem Renaissance
ANTHRO 022 Ancient Cities of the Americas
ANTHRO 4321 Urban Anthropology
ARCH 584 Urban Landscape Architecture
ARTHIST 106 Art Cities of Europe
ARTHIST 360 Modern Architecture II: The Rise of Modern Architecture
ARTHIST 361 Modern Architecture III: Contemporary Architecture
ARTHIST 412 Cities and Sanctuaries of Ancient Greece
ARTHIST 425 Romanesque Architecture
ARTHIST 426 French Gothic Architecture
ARTHIST 429 English Medieval Architecture
ARTHIST 431 Renaissance Architecture in Italy
ARTHIST 458 A Comparative History of Architecture and Urbanism: (Subtitle)
ARTHIST 459 American Architecture
ARTHIST 461 Early Modern Architecture in the Midwest
ARTHIST 462 Frank Lloyd Wright
COMPLIT 230 Literature and Society: (Subtitle)
COMPLIT 232 Literature and Politics: (Subtitle)
CRM JST 370 Criminal Justice Administration
CRM JST 372 Criminal Justice Policy and Community
DANCE 370 World Movement Traditions: “Hip Hop” subtitle
ECON 323 Urban Economics
ED POL 113 The Milwaukee Community
ED POL 114 Community Problems
ED POL 203 Communities and Neighborhoods in America
ED POL 401 Foundations of Community-Based Organizations
ED POL 500 Sociology and the Policy of Urban Communities and Schools
ED POL 503 Foundations of Community-Based Organizations
ED POL 507 Action Research on Milwaukee Institutions
ENGLISH 248 Literature and Contemporary Life: “Mapping the City” subtitle
ENGLISH 394 Theories of Mass Culture
GEOG 114 Geography of Race
GEOG 140 Our Urban Environment: Introduction to Urban Geography
GEOG 297 Study Abroad: “Urban Environmental Changes in Guatemala” subtitle
GEOG 440 City Systems and Metropolitan Areas
GEOG 443 Cities of the World: Comparative Urban Geography
GEOG 497 Study Abroad: “Urban Environmental Changes in Guatemala” subtitle
GEOG 520 Physical Geography of the City
GEOG 540 Globalization and the City
GEOG 564 Urban Environmental Change and Social Justice
GEO SCI 465 Advanced Environmental Geology
GEO SCI 466 Advanced Environmental Geology Laboratory
GERMAN 647 Seminar on Themes and Motifs in German Literature: “Cities of the German-Speaking World” and “Stories from Urban Landscapes of Ireland and Germany” subtitles
GLOBAL 321 The Global City in History
GLOBAL 421 Cities in the Global Economy
HIST 192 Freshman Seminar: “Living in Ancient Rome” and “The Burbs: History of American Suburbs” subtitles
HIST 200 Historical Roots of Contemporary Issues: “Making of the American Ghetto” subtitle
HIST 303 A History of Greek Civilization: The Greek City-State
HIST 307 A History of Rome: The Republic
HIST 308 A History of Rome: The Empire
HIST 371 Topics in European History: “Rome in the Age of Constantine â€“ Society and Culture” subtitle
HIST 404 Topics in American History: “The Wire” subtitle
HIST 436 Immigrant America Since 1880
HIST 440 History of the American Working Classes
HIST 450 Growth of Metropolitan Milwaukee
HIST 460 History of Poverty
HIST 463 History of the American City
Awarding of Certificate

Students currently involved in baccalaureate studies who complete the requirements of the program successfully will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon successful completion of the program requirements.
Women's Studies

Andrea Westlund, Associate Professor of Philosophy and Women’s Studies, Chair

Women's Studies is an academic discipline that critically evaluates gender from an interdisciplinary perspective and challenges many traditional assumptions and theories about women that have excluded them from positions of power. It examines the practice and expression of gender in different societies and at different historical moments; it explores the various origins and articulations of gender differentiation; it traces the influence of gender expectations on individuals and it studies the interactions of gender and other differences in social, political, and cultural contexts. The feminist pedagogy used in Women's Studies courses empowers all students to become active learners and social change agents through discussion, written work, collaborative projects, and practical involvement beyond the classroom.

Students completing a BA with a major in Women's Studies will be able to analyze competing perspectives and integrate various bodies of knowledge across traditional academic boundaries. They learn to identify and assess gender-based assumptions and biases and to recognize their consequences on an individual, social, and cultural level. Students develop critical thinking skills as they examine the process of acquiring knowledge and learn to question not only the answers, but the questions as well. Women's Studies courses complement and enhance the training students receive in liberal arts and the professions. They may be taken to fulfill General Education requirements or as part of the offerings in many departments.

Women's Studies prepares students for careers in nonprofit organizations, business, the creative arts, education, government and public policy, journalism, law, medicine, publishing, science, the social sciences, social work, and many other fields. Students who major or minor in Women's Studies are equipped for graduate study in many fields, including the social sciences, humanities, and professions. They may combine their interest in Women's Studies with many of the certificate programs offered at UWM or with another departmental major.

Students who are interested in the major or minor should consult with the Women’s Studies Program to make a formal declaration. For additional information, please contact the Women's Studies Program, located in NWQ B 7585, by phone at (414) 229-5918 or on the web at www4.uwm.edu/letsci/womensstudies.

Course of Study: Major

The Women’s Studies major requires 36 credits drawn from women’s studies core and cross-listed classes. Students must complete six credits in humanities courses and six credits in social sciences courses approved for women’s studies credit. It is recommended that students also complete three credits in the natural sciences and three credits in the fine arts. At least 15 credits in the major must be taken in upper-division (numbered 300 or above) courses in residence at UWM. Completion of Wmns 411 and either Wmns 500 or 501 satisfies the L&S research requirement. Students must maintain a GPA of at least 2.5 in UWM major courses attempted. In addition, the College requires that students attain a 2.5 GPA in all major courses attempted, including any transfer work. Majors should consult regularly with their advisor.
in women’s studies about their course of study.

The major requires completion of the following courses offered through Women’s Studies:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMNS 200*</td>
<td>Introduction to Women’s Studies: A Social Science Perspective</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WMNS 201**</td>
<td>Introduction to Women’s Studies: A Humanities Perspective</td>
<td>3</td>
</tr>
<tr>
<td>WMNS 211</td>
<td>Foundations of Women’s Studies Writing and Research</td>
<td>3</td>
</tr>
<tr>
<td>WMNS 401*</td>
<td>Global Feminism</td>
<td>3</td>
</tr>
<tr>
<td>WMNS 410**</td>
<td>Feminist Theory</td>
<td>3</td>
</tr>
<tr>
<td>WMNS 411 (400)*</td>
<td>Women's Studies Research and Methods: (Subtitle)</td>
<td>3</td>
</tr>
<tr>
<td>WMNS 489*</td>
<td>Internship in Women's Studies</td>
<td>1-3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WMNS 699</td>
<td>Independent Reading (taken in the senior year)</td>
<td>1-3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Any upper-level (numbered 300 and above) Wmns or Women's Studies-related course approved by the Women's Studies director or assistant director (undergraduate advisor)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WMNS 500*</td>
<td>Advanced Social Science Seminar in Women’s Studies</td>
<td>3</td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WMNS 501**</td>
<td>Advanced Humanities Seminar in Women's Studies</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHILOS/WMNS 535</td>
<td>Philosophical Topics in Feminist Theory: (Subtitle)</td>
<td>3</td>
</tr>
</tbody>
</table>

* Counts toward the major's social science requirement  
** Counts toward the major's humanities requirement

An additional 15 credits, selected from Wmns courses and/or cross-listed courses offered by other departments are required. Numerous courses in a wide variety of disciplines have been approved for cross-listing with Women's Studies. Disciplines include, but are not limited to, Africology; anthropology; art history; biological sciences; communication; comparative literature; economics; English; ethnic studies; film studies; Hebrew studies; history; Italian; journalism, advertising, and media studies; linguistics; philosophy; political science; psychology; sociology; Spanish; urban planning; nursing; business administration; art; music; criminal justice; social work; and education. For information about courses that currently are cross-listed, please contact the Women's Studies Program.

**Honors in the Major**

Women's Studies majors who have maintained at least a 3.0 GPA overall, 3.5 GPA in courses taken for the major, and a 3.5 GPA in advanced-level (numbered 300 and above) courses that count toward the major are eligible to graduate with honors in the major. Students who believe they may qualify to graduate with honors in the major should apply to the Assistant Director of the Women's Studies Program.

**Course of Study: Minor**

Students who minor in Women’s Studies are required to take 18 credits drawn from women’s studies and cross-listed courses, at least 9 credits of which must be completed in upper-division (numbered 300 or above) courses in residence at UWM. Students are required to complete six credits in humanities courses and six credits in social science courses approved for women’s studies credit. In addition, students must attain a 2.5 GPA in all minor courses attempted, including any transfer work. The following courses are required for the minor:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>WMNS 200*</td>
<td>Introduction to Women’s Studies: A Social Science Perspective</td>
<td>3</td>
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<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WMNS 201**</td>
<td>Introduction to Women’s Studies: A Humanities Perspective</td>
<td>3</td>
</tr>
<tr>
<td>WMNS 401*</td>
<td>Global Feminism</td>
<td>3</td>
</tr>
<tr>
<td>WMNS 410**</td>
<td>Feminist Theory</td>
<td>3</td>
</tr>
</tbody>
</table>
Courses: Women's Studies (WMNS)

Cross-Listed Courses

Numerous courses in a wide variety of disciplines have been approved for cross-listing with women's studies. For information about currently cross-listed courses, please contact the Women's Studies Program.

Faculty and Teaching Staff

Carolyn Eichner, Assoc. Prof., PhD, History
University of California, Los Angeles

Casey Gerhart, Lect., ABD, English
University of Wisconsin-Milwaukee

Xin Huang, Asst. Prof., PhD, Women's Studies
University of British Columbia

Cheryl Kader, Sr. Lect., PhD, English
University of Wisconsin-Milwaukee

Anna Mansson McGinty, Assoc. Prof., PhD, Geography
Lund University, Sweden

Kathleen Miller-Dillon, Assistant Director

Andrea Westlund, Assoc. Prof., PhD, Philosophy
University of Michigan - Ann Arbor

Web Home Pages:
[ College of Letters & Science ]
Criminal Justice

- Web Home Pages:
  - Helen Bader School of Social Welfare
  - Criminal Justice
- Admission
- Course of Study
- Field Work
- Criminal Justice Minor
- Certificate Program in Forensic Sciences
- Crime Analysis
- Courses: Criminal Justice (CRM JST)

Study in the field of criminal justice examines the component parts of criminal justice - police, courts, and corrections - and seeks to gain an understanding of the interdependencies among them. Courses emphasize the role of criminal justice agencies in society, particularly in relation to the impact of alternative criminal justice policies on society and social problems.

Admission

In addition to normal University admission requirements, students submit a separate application for admission to the criminal justice major when they have achieved junior standing. A cumulative GPA of at least 2.0 on all previous college work and completion of Crm Jst 150 are required for admission. Applications may be obtained from the Helen Bader School of Social Welfare Student Information Center, 11th floor of Enderis Hall.

Course of Study

Criminal justice intended majors spend their first two years building a liberal arts foundation and fulfilling proficiency requirements. Freshmen and sophomores may begin to take courses offered in the Helen Bader School of Social Welfare.

The major in criminal justice requires a minimum of 31 credits in criminal justice courses, and 27 credits in social science courses, for a minimum of 58 credits for the major. No more than 65 credits in criminal justice and social science courses may be taken for credit toward the degree. The Department requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work, to meet graduation requirements.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>Crm Jst 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 150</td>
<td>Introduction to Research in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 271</td>
<td>Police Process</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 273</td>
<td>Corrections Process</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 275</td>
<td>Criminal Court Process</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 295</td>
<td>Crime and Criminal Justice Policy</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 662</td>
<td>Methods of Social Welfare Research</td>
<td>3</td>
</tr>
</tbody>
</table>

(Soc Wrk 100 and Soc Wrk 206 count as electives in the criminal justice major.)
Social Science Requirements. A total of 27 credits in the social sciences is required, to include the following distribution:

1. 15 credits taken in a single area of concentration from one of the following: anthropology, economics, history, political science, psychology, or sociology. (Courses must be approved as General Education social sciences.) At least 6 of these credits must be at the upper division (300 level or above).

2. 12 credits taken in at least two other social sciences from the list above, outside the area of concentration. Other social sciences such as geography, philosophy, etc., are not included in the social sciences for the major, nor do they count in the 65-credit rule.

Field Work

Upon approval of the Criminal Justice Field Coordinator, the student may earn up to 6 credits for authorized field placements with various criminal justice agencies including police departments, court-related agencies, and correctional institutions.

Criminal Justice Minor

Students interested in a minor in criminal justice can pursue one of two tracks: a standard track or crime analysis track.

The standard minor track requires a minimum of 19 credits in criminal justice courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crm Jst 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 150</td>
<td>Introduction to Research in Criminal Justice</td>
<td>1</td>
</tr>
<tr>
<td>Crm Jst 271</td>
<td>Police Process</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 273</td>
<td>Correctional Process</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 275</td>
<td>Criminal Court Process</td>
<td>3</td>
</tr>
</tbody>
</table>

The remaining 6 credits must be earned in courses at the 300 level or above. Credits earned in Crm Jst 311 (Field Experience) and Crm Jst 599 (Independent Reading) do not count toward the minimum number of credits required for the standard minor track.

The crime analysis minor track consists of 27 credits, with the following courses (or equivalents approved by the department chairperson) required:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crm Jst 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 271</td>
<td>Police Process</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 295</td>
<td>Crime and Criminal Justice Policy</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 662</td>
<td>Methods of Social Welfare Research</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 480</td>
<td>Criminal Evidence and Investigation</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 510</td>
<td>Introduction to Crime Analysis</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 520</td>
<td>Analysis Oriented Technology: Spatial Data Analyses; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 530</td>
<td>Data Driven Policing</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 311</td>
<td>Field Experience Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

A minimum of 15 credits must be taken in residence at UWM. Criminal Justice 110, Criminal Justice 271, Criminal Justice 295, and Criminal Justice 662 are prerequisites for Criminal Justice 510 and Criminal Justice 520. Criminal Justice 110, Criminal Justice 271, and Criminal Justice 295 are prerequisites for Criminal Justice 530. Criminal Justice 110 is a prerequisite for all other courses in the sequence.

Certificate Program in Forensic Sciences
The Criminal Justice Program in the Helen Bader School of Social Welfare cooperates with the Departments of Anthropology and Chemistry in the College of Letters & Science and the Clinical Laboratory Sciences Program in the College of Health Sciences to offer studies in forensic sciences. Certificates can be earned in Death Investigation, Forensic Sciences, and Forensic Toxicology. For additional information, see the complete "Forensic Sciences" program description in the Inter-School/College section of this catalog.

Crime Analysis

The Department of Criminal Justice offers a Specialization in Crime Analysis. A sequence of courses will lead to a specialization in this growing area. Preparation includes a foundation in criminal justice and research methods; specialized coursework in crime analysis, analysis-oriented technology, and data driven policing; and field placement in an agency setting with practicing professionals.

Course of Study: Specialization in Crime Analysis

The specialization in Crime Analysis consists of 27 credits, with the following courses (or equivalents) required:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crm Jst 110</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>Info St 110</td>
<td>Introduction to Information Science and Technology</td>
<td>3</td>
</tr>
<tr>
<td>OR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Info St 120</td>
<td>Information Technology Ethics</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 271</td>
<td>Police Process</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 295</td>
<td>Crime and Criminal Justice Policy</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 662</td>
<td>Methods of Social Welfare Research</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 480</td>
<td>Criminal Evidence and Investigation</td>
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</tr>
<tr>
<td>Crm Jst 510</td>
<td>Introduction to Crime Analysis</td>
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</tr>
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<td>Crm Jst 520</td>
<td>Analysis Oriented Technology: Spatial Data Analyses; Crime Mapping; ArcGIS</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 530</td>
<td>Data Driven Policing</td>
<td>3</td>
</tr>
<tr>
<td>Crm Jst 311</td>
<td>Field Experience Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Students must complete all coursework within the sequence. A minimum of 15 credits must be taken in residence at UWM. Criminal Justice 110, Criminal Justice 271, Criminal Justice 295, and Criminal Justice 662 are prerequisites for Criminal Justice 510 and Criminal Justice 520. Criminal Justice 110, Criminal Justice 271, and Criminal Justice 295 are prerequisites for Criminal Justice 530. Criminal Justice 110 is a prerequisite for all other courses in the sequence.

Courses

Criminal Justice (CRM JST)
UWM Undergraduate Catalog 2014-2015

Helen Bader School of Social Welfare

Military Science

- Web Home Pages:
  - Helen Bader School of Social Welfare

Military Science Program

- Army ROTC
- Air Force ROTC
- Naval ROTC

Army ROTC

UW-Milwaukee students have the opportunity to participate in the Army Reserve Officers Training Corps (AROTC) at Marquette University. The AROTC program provides university students with leadership, management, technical, and tactical skills that will enable them to start their journey as commissioned officers in the United States Army, Army Reserve, or Army National Guard.

Army ROTC is not a major field of study. It is a program in which students pursue a baccalaureate degree of their choice and take AROTC courses in military-oriented subject matter. AROTC provides a general knowledge of the contemporary role of the Army in support of national objectives and a practicum in management and leadership skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program offers competitive two-, three-, and four-year scholarships to qualified students. Currently, the scholarships offered for UWM students cover full tuition and fees or room and board, $1,200 a year for books, and a $300-$500 monthly stipend.

General Eligibility. To be eligible for an AROTC scholarship, students must:

- Be a United States citizen;
- Be a full-time student;
- Have no major civil convictions;
- Not be a conscientious objector;
- Be medically qualified;
- Have a minimum 2.5 GPA; and
- Have a minimum ACT score of 19 or SAT score of 950.

The Army ROTC program is divided into two parts: the basic course (freshman and sophomore years) and the advanced course (junior and senior years). The freshman year course currently is being offered at UWM; the remainder of the courses are offered at Marquette University. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

Basic Course. In the basic course, cadets learn basic military skills and receive the foundation for leadership and management skills that are expanded during the advanced course. The basic course is open to all full-time UWM students without any obligation to the Army.

Advanced Course. During the advanced course, cadets learn more extensive leadership and management skills, and they are placed into various leadership positions in the battalion. Cadets also develop skills and attributes that are
essential for all commissioned officers in the U.S. Army.

In addition to completing the military science courses, advanced-course students are required to attend the Advanced Leadership Course at Fort Lewis, Washington, during the summer between the junior and senior years. During this five-week camp, cadets are expected to apply all of the skills that they have learned in the AROTC program. In addition, cadets are offered the opportunity to compete for a chance to attend Airborne School, Air Assault School, or Cadet Troop Leadership Training (CTLT). CTLT is an "internship" in which cadets have a chance to see what a Second Lieutenant does on an active duty Army post.

To qualify for the Advanced Course, students must accomplish one of the following:

- Complete the two years of the basic course;
- Attend the Basic Leaders Course, a six-week camp at Fort Knox, Kentucky; or
- Complete U.S. Army Basic Training or its equivalent.

**Field Exercises:** Once a semester all of the cadets in the program go to Fort McCoy, Wisconsin, to practice all of the skills that they have learned. Advanced course cadets also are given the opportunity to improve their leadership skills by being placed in various leadership positions leading other cadets.

**Physical Training:** Three times a week, cadets are required to attend physical training (PT). During PT, cadets do physical activities such as push-ups, sit-ups, and running. PT currently is conducted at both UWM and Marquette University.

For more information about enrolling in the Army ROTC program, contact army-rotc@uwm.edu or the Department of Military Science at Marquette University, (414) 288-7195, or www.marquette.edu/rotc/army.

**Air Force ROTC**

UWM students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four- and three-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course.

**General qualifications:**

- Be a full-time student;
- Be a United States citizen (for scholarship appointment);
- Be in good physical condition;
- Be of good moral character;
- For pilot or navigator training, fulfill all commissioning requirements before age 29;
- For scholarship recipients, fulfill all commissioning requirements before age 31; and
- For non-scholarship students, fulfill all commissioning requirements before age 31.

**General Military Course.** The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

**Field Training.** AFROTC Field Training is offered during the summer months at Maxwell Air Force base, Alabama, and provides leadership and officer training in a structured military environment. Major areas of study include physical
training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

**Professional Officer Course.** The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a nontaxable subsistence allowance per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

**Leadership Lab.** Leadership Lab is a cadet-centered activity. It is largely cadet planned and directed, in line with the premise that it provides leadership training experience that will improve a cadet’s ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information, and other services that will increase the performance and motivation of other cadets.

**AFROTC College Scholarship and High School Scholarship Programs.** While participating in AFROTC, scholarship students receive a stipend per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:

- Be a U.S. citizen;
- Be at least 17 years of age on the date of enrollment and under 31 years of age on December 31 of the estimated year of commissioning;
- Pass an Air Force physical exam;
- Be selected by a board of Air Force officers;
- Have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious objectors);
- Maintain a 2.5 grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year. Information on Air Force ROTC and applications for Air Force scholarships are available at [www.AFROTC.com](http://www.AFROTC.com). Scholarship applications will not be accepted after December 1 of the year before entering college.

For more information, contact the Department of Aerospace Studies at Marquette University, (414) 288-7682.

**Naval ROTC**

The Naval Science Department at Marquette University administers the Naval Reserve Officers Training Corps (NROTC) program. Graduates who complete all requirements will receive reserve commissions and serve on active duty in the Navy or Marine Corps with a minimum three-year commitment for non-scholarship students and five-year commitment for scholarship students.

**Scholarships**

NROTC offers two-, three-, and four-year scholarships to qualified applicants. Four-year scholarships are awarded on a national level to qualified high school applicants (visit www.nrotc.navy.mil for more information and to apply). Two- and three-year scholarships are awarded to students who have completed at least one, but not more than four, terms of
college while a member of the NROTC Unit. Two-year scholarships for students who are entering their junior year and have not previously been enrolled in the NROTC program also are available.

Students entering UWM with a four-year scholarship, earned on a competitive basis while still in high school, will receive full tuition, fees, laboratory expenses, a stipend for books, and a subsistence allowance of $250 to $400 per month, depending on class year. Necessary uniforms and textbooks for required Naval Science courses are issued as well.

Basic Requirements:

- Be a U.S. citizen;
- Not less than 17 years old by Sept. 1 of year starting college, and no more than 23 on June 30 of that year;
- Be of good moral character;
- Be a high school graduate;
- Be 27 or younger by June 30 of the year you will graduate;
- Be physically qualified by Navy/Marine Corps standards; and
- Achieve qualifying scores on the SAT or ACT
  - ACT: 22 verbal, 22 math (22 composite for Marine Corps)
  - SAT: 530 verbal, 520 math (1000 composite for Marine Corps).

Students not on scholarship can still participate in the NROTC College Program. They receive uniforms and Naval Science textbooks, and $350 and $400 per month during their junior and senior years, respectively. All College Program students are eligible to compete for Naval Education and Training Command scholarships. Students are selected on a competitive basis after completing at least one term as an NROTC College Program student. Selection boards meet semiannually in March and June to consider students based on their most recent term. Students may receive scholarship benefits for three or two academic years. Once selected, the students receive the same benefits and incur the same active duty requirements as students in the four-year scholarship program.

The Naval Science Department teaches Naval Science courses and supervises a midshipman-run drill program that instills leadership skills and professional development in all members of the midshipman battalion. All midshipmen are required to register for and participate in this two-hour weekly drill period, which occurs at the Marquette University Gymnasium. One Naval Science class each term is also required, with the exception of Nurse Corps and Marine Corps Options. Students enrolled in the program from UWM attend Naval Science classes at Marquette as "cross-town" students, while the rest of their major is completed on the UWM campus. Midshipmen on scholarship or in advanced-standing status also are required to attend a four- to six-week training period each summer. This summer training introduces midshipmen to the fleet and to the life of a junior Naval Officer. The summer training period also provides an orientation to each of the different warfare specialties available upon graduation (aviation, surface, submarine, and the Marine Corps).

All Navy Option scholarship students are required to complete one year of calculus by the end of their sophomore year, and one year of calculus-based physics by the end of their junior year. Navy Option college program students must complete one year each in mathematics and physical science. One course on World Cultural Awareness, one year of English, and either an American Military History or National Security Policy course also are required for all NROTC students.

All scholarships are awarded on the basis of merit and personal qualifications. Neither a Parents' Confidential Financial Statement nor a standard FAF is required for consideration for Naval ROTC scholarships.

For more information, contact the Department of Naval Science at Marquette University, (414) 288-7076, or visit our website at [www.marquette.edu/rotc/navy](http://www.marquette.edu/rotc/navy).

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**Courses**
The bachelor’s degree in social work is accredited by the Council on Social Work Education. Its primary objective is to prepare students for beginning generalist social work practice.

The program prepares students for potential employment in both public (federal, state, and county) and private social service agencies. A sample of career possibilities includes caseworker, psychiatric social worker, youth counselor, and alcohol/drug counselor.

**Admission**

In addition to the normal University admission requirements, students apply on a separate application for admission to the social work major when they achieve junior standing. A cumulative GPA of at least 2.5 on all previous college work is required for admission to the major. Applicants to the social work major also must have completed a minimum of 75 hours of related supervised volunteer or work experience. See an advisor for more information. Applications may be obtained from the Helen Bader School of Social Welfare Student Information Center, 11th floor of Enderis Hall.

**Course of Study**

The undergraduate social work major includes a preprofessional component. Social work intended majors spend their first two years building a liberal arts foundation and fulfilling proficiency requirements.

In addition to satisfying the liberal arts foundation requirements, the student must earn a minimum of 69 credits in social work or Helen Bader School of Social Welfare courses and social sciences. (A student can take courses in criminal justice and have them count toward the major as elective credit.)

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soc Wrk 100</td>
<td>Introduction to Human Services</td>
<td>3</td>
</tr>
<tr>
<td>Soc Wrk 206</td>
<td>Society, Poverty, and Welfare Programs</td>
<td>3</td>
</tr>
<tr>
<td>Soc Wrk 250</td>
<td>Human Behavior and the Social Environment</td>
<td>3</td>
</tr>
<tr>
<td>Soc Wrk 310</td>
<td>Social Work Methods I</td>
<td>3</td>
</tr>
<tr>
<td>Soc Wrk 410</td>
<td>Social Work Methods II</td>
<td>3</td>
</tr>
<tr>
<td>Soc Wrk 427</td>
<td>Social Work Methods III</td>
<td>3</td>
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</tbody>
</table>
Social Science Requirements. A total of 27 credits in the social sciences is required, to include the following distribution:

1. 15 credits taken in a single area of concentration from one of the following: anthropology, economics, history, political science, psychology, or sociology. (Courses must be approved as General Education social sciences.) At least 6 of these credits must be at the upper division (300 level or above).

2. 12 credits taken in at least two other social sciences from the list above, outside the area of concentration. Other social sciences such as geography, philosophy, etc., are not included in the social sciences for the major, nor do they count in the 69-credit rule.

3. The student must have at least one course in each of the following content areas: social change, social organization and institutions, personality theory, biological processes, and ethnic/minority studies. The standard social work curriculum leaves enough flexibility in the choice of social science and elective courses to enable students to develop informal program options according to their interests.

Field Work

The field education sequence required for social work majors consists of two semesters of placement, beginning in the junior year. A total of 256 hours in the field is required each of the two semesters. The field courses are taken concurrently with the methods sequence. Students are required to maintain a grade of B or better in each social work methods and field course. When a student does not, the student’s academic progress is reviewed by the chair of the Social Work Department. In certain cases, the student may be referred to the Faculty Review Panel and may not be allowed to continue in the major.

For further information, consult the Field Staff Office, Enderis Hall, Room 1075, phone (414) 229-6036; the Advising and Field Manuals; or the Student Information Center, 11th floor of Enderis Hall.

Courses
UWM Undergraduate Catalog 2014-2015

College of Nursing

UWS NSG UWS Collaborative Nursing Prog

This course information produced at 01:00 on 07/30/2015.

365 Current Topics of Nursing: (Subtitled). 1-6 cr. U. Current thought, issues and research in nursing and implications for practice.|May be retaken with change in topic to max of 12 cr. Prereq: jr st or cons instr.

407 Foundations of Professional Nursing Practice. 3 cr. U. Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced. Writing emphasis course.|Counts as repeat of UWS NSG 341 & Nurs 407X. Prereq: admis to BSN @ Home Prog or cons instr.

441 Chronic Care Management. 3 cr. U. Exploration of interaction of biological, psychological, social, and environmental factors important to understanding management of chronic conditions at the individual, family, community, and societal levels.|Counts as repeat of Nurs 441X. Prereq: admis to BSN @ Home Prog or cons instr.

446 Research and Evidence-Based Practice. 3 cr. U. Introduces the importance of research to improve clinical practice, strategies to evaluate the quality of research and evidence, and increase integration of research into practice.|Counts as repeat of UWS Nsg 434 & Nurs 446X. Prereq: admis to BSN @ Home prog or cons instr.

447 Leadership and Management. 3 cr. U. Examines nursing leadership and management using relevant theories and concepts. Analyze decision-making in relation to communication, delegation, supervision and group process.|Counts as repeat of UWS Nsg 437 & Nurs 447X. Prereq: admis to BSN @ Home Prog or cons instr.

453 Information Management and Healthcare Technology. 3 cr. U. Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing's role in healthcare technology.|Counts as repeat of Nurs 453X. Prereq: admis to BSN @ Home Prog or cons instr.

454 (484) Community Health Nursing. 3 cr. U. Nursing care of populations and communities to facilitate optimal health outcomes.|Counts as repeat of UWS Nsg 444 & Nurs 454X. Prereq: admis to BSN @ Home Prog or cons instr.
School of Education

AD LDSP Administrative Leadership

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; cons instr; acceptance for Study Abroad Prog.


507 Introduction to Group Leadership. 3 cr. U/G. Concepts and theories of group and organizational leadership applied to problems of youth-serving organizations and student activities in secondary and post-secondary schools and colleges. Prereq: jr st.

517 Introduction to Adult Education Practice. 3 cr. U/G. Objectives, organization and practices of postsecondary programs of lifelong learning, adult and continuing education, and community and public service programs. Prereq: jr st.

537 Leadership and Management of Volunteer Programs. 3 cr. U/G. Introduction to volunteers and organizations which utilize them. Course emphasizes practical application of leadership skills needed for effective management and training of volunteers. Prereq: jr st.

547 The Educational Dimensions of Practice with Older Adults. 3 cr. U/G. Current problems, issues and research relating to the development and organization of educational programs for older adults. Prereq: jr st.

557 Foundations and Philosophy of WTCS in Wisconsin. 3 cr. U/G. History, philosophy, objectives, organization and legal bases for vocational education, with special emphasis given the movement in Wisconsin. Prereq: jr st or vocational teachers or cons instr.

577 Adult Literacy and Workforce Development. 3 cr. U/G. Analyzes the problem of adult low literacy and its effects on work force development; presents alternative procedures for providing educational programs. [Prereq: jr st.]

579 Current Topics in Administrative Leadership: (Subtitled). 1-3 cr. U/G. Current problems, issues and research in administrative leadership and supervision and their implications for practitioners. May be repeated with change in topic to max of 9 cr. Prereq: jr st.

581 Administration and Supervision in Early Childhood Programs. 3 cr. U/G. Analyzes, from a quality perspective, the administrative roles and responsibilities of various early care and education programs, and the groups with whom they have relationships. [Prereq: jr st.]

582 Operations Management in Early Childhood Programs. 3 cr. U/G. An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services. Jointly offered with & counts as repeat of Ed Pol 582. Prereq: jr st; Ad Ldsp 581(P); or cons instr.

583 Financial Management and Planning in Early Childhood Programs. 3 cr. U/G. Identifies the principles of sound financial management and develops the ability to apply those principles to the financial planning and management of early childhood programs. [Prereq: jr st & Ad Ldsp 581(P); or cons instr.]

586 Administrative Seminar: Leadership in Early Childhood Programs. 3 cr. U/G. Integrates and applies the concepts and skills acquired in the first five courses as demonstrated in the development of a major project by each student. [Prereq: jr st & Ad Ldsp 581(P); Ad Ldsp 582(P) or Ed Pol 582(P); Ad Ldsp 583(P); Ed Pol 584(P); CurrIns 585(P).]

587 Serving Multicultural and Special Needs Learners. 3 cr. U/G. Examines the needs of multicultural and adult vocational special needs learners; explores strategies for revising instructional methods/approaches and program development. [Prereq: jr st.]

591 Early Childhood Leadership: The Personal Disposition of a Leader. 3 cr. U/G. Leadership definitions and skills and the role of vision, emotional intelligence, resilience, optimism and reflective practice for successful early childhood leaders. [Prereq: jr st; completion of childcare credential or cons instr.]

592 Early Childhood Leadership: Leading in Your Program. 3 cr. U/G. Leadership roles, responsibilities and skills necessary for leadership in staff development and excellence in early childhood programs. [Prereq: jr st; completion of childcare credential or cons instr.]

593 Early Childhood Leadership: Leading in Your Community and the Field. 3 cr. U/G. Leadership skills necessary for leadership in communities and the profession with a focus on collaboration, interconnections, relationships, transformation and advocacy. [Prereq: jr st; completion of childcare credential or cons instr.]

594 Early Childhood Leadership: Leading for Change. 3 cr. U/G. Transformational leadership, theories on change, action research, and advocacy strategies. Completion of action research project to effect change. [Prereq: jr st; completion of childcare credential or cons instr.]

597 Program Development in Occupational Education. 3 cr. U/G. Technical, administrative, organizational, and participatory skills and knowledge associated with program development in occupational education for adults and adolescents. [Prereq: jr st.]

598 Introduction to Workforce Education and Development. 3 cr. U/G. Foundations of workforce education and development; nature and role of education in preparing individuals for work. [Prereq: jr st.]

607 Coordination of Staff Development and Training Program. 3 cr. U/G. Provides knowledge and skills required for the design, coordination and administration of staff development and training programs.|Prereq: jr st.

617 Leadership in Youth-Serving Organizations. 3 cr. U/G. Introduction to the philosophy and operations of youth-serving organizations, administration of programs, and the role of youth-serving organizations in the larger community.|Prereq: jr st.

630 Field Work in Schools, Agencies and Institutions. 2-6 cr. U/G. Field inquiry and experience in applied problems of administrative leadership in school administration, supervision or adult education in conjunction with seminar sessions to relate theory to practice.|Retakable to max of 6 cr. Prereq: Ad Ldsp 517(P) or 702(P) or 757(657)(P); cons instr.


647 Evaluation of Adult, Continuing, and Higher Education Programs. 3 cr. U/G. Provides an awareness, analysis, and synthesis of the purposes, methods, and procedures for evaluating diverse types of adult, continuing, and higher education programs, e.g., HRD, extension/outreach, etc.|Counts as repeat of Ad Ldsp 579 with similar title. Prereq: jr st.

667 Program Planning in Adult Education. 3 cr. U/G. Principles and processes affecting programming of adult education. Focus on planning, execution, and evaluation dimensions of the programming process.|Prereq: jr st; Ad Ldsp 517(P) or 757(657)(P).

687 Instructional Design and Teaching Strategies. 3 cr. U/G. Using an instructional design approach, students develop skills in selecting, using, and evaluating instructional strategies and procedures appropriate to particular domains of adult learning.|Prereq: jr st; Ad Ldsp 517(P); or cons instr.

691 Leadership Ethics in Multicultural Organizations. 1 cr. U/G. Introduction to the concept of ethics and leadership in multicultural organizations.|Counts as repeat of Ad Ldsp 579 with similar title. Prereq: jr st


693 Decision Making in Multicultural Organizations. 1 cr. U/G. Introduction to individual planning and decision making in multicultural organizations.|Counts as repeat of Ad Ldsp 579 with title 'Planning and Decision Making Skills'. Prereq: jr st.

This course information produced at 01:00 on 07/30/2015.


111 Introduction to African-American History to 1865. 3 cr. U. African and African-American history to the Reconstruction period. [Prereq: none.]

112 Introduction to African-American History, 1865 to the Present. 3 cr. U. African-American history from the Reconstruction era to the present. [Prereq: none.]

121 Introduction to African-American Politics. 3 cr. U. Introduction to African-American politics, with special emphasis on the relation between race, ethnicity, religion, class, and power in American society. [Prereq: none.]

125 Economics of the Black Community. 3 cr. U. A survey of key economic principles, and elements that structure economic behavior in the black community. [Prereq: none.]

163 African-American Concept of Self. 3 cr. U. Survey of the cultural, social and psychological origins of the contemporary view African Americans have of themselves. [Prereq: none.]

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). [Prereq: none.]

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). [Prereq: none.]

199 Independent Study. 1-3 cr. U. For further information, consult the department chair. [Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & assoc dean for SAS.]


215 Introduction to Black Social and Cultural Traditions. 3 cr. U. A consideration of the social and cultural traditions that ground the life experiences and prospects of black people. Prereq: none.

220 (effective 09/02/2015) Introduction to Statistics in Africology. 3 cr. U. The use of statistical methods and techniques in Africology. Data from the Afroworld (North and South America, Africa, and the Caribbean) will be analyzed. Prereq: Math 102(P), 103(106)(P), 105(P), or 108(P) or score level 30 on math placement exam.

220 Introduction to Statistics in Africology. 3 cr. U. The use of statistical methods and techniques in Africology. Data from the Afroworld (North and South America, Africa, and the Caribbean) will be analyzed. Prereq: Math 103 (106)(P) or 105(P) or score level 30 on math placement exam.

222 Research Methods in Africology. 3 cr. U. A survey of research methods and techniques, and the uses of the computer in data gathering and analysis in Africology. Prereq: soph st; elementary stats course.

228 Introduction to Black Political Economy. 3 cr. U. A survey of the interplay of the basic political and economic categories that structure the form and content of black life in America. Prereq: soph st.


235 African Americans and South Africa. 3 cr. U. The study of ideological, economic, religious, cultural, educational and political ties between African Americans and black South Africans from the 19th century to the present. Prereq: soph st or cons instr.

250 Black Women and White Women in the Contemporary United States. 3 cr. U. The effect of economics, education, social structures and history on the role of black women in U.S. society. Prereq: soph st.

250 (effective 09/02/2015) Black Women and White Women in the Contemporary United States. 3 cr. U. The effect of economics, education, social structures and history on the role of black women in U.S. society. Prereq: soph st.


265 Psychological Effects of Racism. 3 cr. U. Psychological and socio-psychological effects of individualized and institutionalized racism on blacks and whites. Emphasis is placed on a range of interactions between blacks and whites. Prereq: soph st.

289 Internship in Africology, Lower Division. 1-6 cr. U. Application of basic principles of Africology in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: 100- or 200-level Africol course; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: Africa in the Re-Configuring Global System. (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.
300 Urban Violence. 3 cr. U/G. Analysis of the nature, causes, and consequences of urban violence; the possibilities and limits of violence in promoting the good of blacks will be scrutinized.|Prereq: jr st.

311 African Religious Thought and Social Organizations. 3 cr. U/G. A critical analysis of foundations from which complex social structures and institutions evolved in the diverse societies of the Afroworld.|Prereq: jr st.


319 History of Blacks in the American City. 3 cr. U/G. A consideration of the contributions of blacks to the growth and development of the American city.|Prereq: jr st.

320 Black Cultures in Latin America and the Caribbean. 3 cr. U. African influence on Latin America and the Caribbean, and the cultures of black peoples in several areas, particularly Brazil, Cuba, Haiti, Jamaica, Trinidad, and Barbados.|Prereq: jr st.


323 Capitalism, Socialism, Nationalism and Fascism. 3 cr. U. An analysis of the political philosophies of capitalism, socialism, nationalism and fascism in relation to their significance for the organization of political societies in the Afroworld.|Prereq: jr st.


334 Survey of Black American and Black Brazilian Societies. 3 cr. U. Examines similarities and differences between peoples of African descent in the United States and Brazil, with reference to society, culture, and political economy.|Prereq: jr st.

341 Black Politics and City Government. 3 cr. U. An analysis of the impact of black politics on the decision-making process of, and delivery of goods and services by, state and local governments.|Prereq: jr st.


350 The Black Family. 3 cr. U/G. An examination of the structure and functions of the black family in its urban and rural contexts.|Prereq: jr st.

351 Sex, Marriage and Health Care in the Afroworld. 3 cr. U. An analysis of marriage, sexual practices, natural and artificial forms of health care, and the survival of African diets and diseases among blacks.|Prereq: jr st.


362 Philosophy and Thought in the Afroworld II. 3 cr. U. Philosophical foundations of the intellectual tradition and political ideas of the Afroworld from 1900 to the present. Prereq: jr st.

369 Mass Media and Black Self-Images. 3 cr. U. An evaluation of how the mass media have affected the psyche of Black people. Prereq: jr st.

370 Forms of Black Expression. 3 cr. U. An analysis of elements of African traditions that have influenced the literature, music, art, dance, and folkways (in the Afro-world, particularly in the United States). Prereq: jr st.

372 African-American Literary Movements: The Harlem Renaissance. 3 cr. U. A consideration of the historical and social forces that promoted the development of black literature during the period of the Harlem Renaissance. Prereq: jr st.

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in the political economy, cultures, and societies of the Afroworld. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200 (P); cons Honors College dir.

411 Change in African-American Communities. 3 cr. U. An analysis of institutional and non-institutional forces that occasion change in black communities. Prereq: jr st.

412 Blacks and the United States Constitution. 3 cr. U. An analysis of the Constitution's impact on blacks, and the body of law that has evolved from litigation involving the interests of black people. Prereq: jr st.


417 Race, Class and Gender in Southern Africa. 3 cr. U. Race, class and gender as sources of conflict and cooperation in southern African societies. Prereq: jr st.

418 Race, Class and Gender in the Caribbean. 3 cr. U. An analysis of race, class and gender in the evolution of political, economic, and social structures in Caribbean societies. Prereq: jr st.

420 The Political Economy of Slavery. 3 cr. U. Analysis of the political and economic contradictions of U.S. slavery; the value of free versus slave labor is scrutinized in the context of emerging capitalism. Prereq: jr st.

450 Cultural Transmissions: Black Africa and Black America. 3 cr. U/G. A cross-national and cross-cultural
comparison of the societies and cultures of black Americans and black Africans. | Prereq: jr st.


489 Internship in Africology, Upper Division. 1-6 cr. U. Application of advanced principles of Africology in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Africol; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.


699 Independent Study. 1-6 cr. U. See Advanced Independent Study. | Retakable w/chg in topic. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, & assoc dean for SAS.
100 New Student Seminar in Health Professions. 1-3 cr. U. An overview of the College of Health Sciences, health professions, academic requirements, career development, and strategies for academic and personal success. May not be retaken for cr. Prereq: none.
ANTHRO Anthropology

14 Foundations of Flamenco. 1 cr. U. Survey of the social groups and forces that have led to the formation of the Andalusian Spanish form of musical expression, Flamenco. | Prereq: none.

101 Introduction to Anthropology: Human Origins. 3 cr. U. Principles of evolution, Mendelian genetics, human adaptability, and concept of race; natural history of primates; human evolution; archaeological evidence for the evolution of culture. | Prereq: none.

102 Introduction to Anthropology: Culture and Society. 3 cr. U. Science of human behavior in different cultural contexts; human biological and cultural variability; human societies of the present and recent past; dynamics of culture change. | Prereq: none.

103 Digging Up the Past: Approaches to Archaeology. 3 cr. U. Why and how extinct cultures are studied. Current archaeological approaches, reconstructing past environments, ethnographic analogy, experimental archaeology. | Prereq: none.

104 Lifeways in Different Cultures: A Survey of World Societies. 3 cr. U. Variety and diversity of human cultural adaptations. Specific peoples and cultures are discussed with respect to their similarities and uniquenesses. | Prereq: none.

105 (360) Introduction to Linguistic Anthropology. 3 cr. U. Methods, techniques, and models of analysis of linguistic anthropology and their applications to the other subfields of anthropology. | Prereq: none.

150 Multicultural America. 3 cr. U. Comparative study of U.S. ethnic and racial identities through popular culture with attention to African-, Asian-, Hispanic-, and Native-American experiences. | Cultures and Communities Prog course; req'd service learning component. Prereq: none.

156 Food and Culture. 3 cr. U. Social and cultural implications of food; nutritional and dietetic concerns of secondary interest. 2 hrs lec, 1 hr dis | Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.
199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & assoc dean for SAS.

203 Religions of Hunting-Gathering and Horticultural Societies. 3 cr. U. A survey of the religious beliefs and practices of hunting-gathering and horticultural societies and their relationships to other aspects of culture. Prereq: none.

213 American Indian Peoples of Wisconsin. 3 cr. U. Past and contemporary societies and cultures of American Indians of Wisconsin, including the Chippewa (Ojibwa), Menominee, Winnebago, Oneida, Potawatomi, Stockbridge-Munsee. Prereq: none.

225 The Aztec Empire. 3 cr. U. Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives. AIS 225 & Anthro 225 are jointly offered; they count as repeats of one another. Prereq: none.

229 Madness and Culture. 3 cr. U. Madness of some kind as a recognized universal in human experience; variation in how madness is expressed, classified, and treated over time and across cultures. Prereq: none.


281 Dead Men Do Tell Tales: An Introduction to Forensic Science. 3 cr. U. A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated. Jointly offered with & counts as repeat of Chem/BMS(C L Sci)/Crm Jst 281. Prereq: none.


289 Internship in Anthropology, Lower Division. 1-6 cr. U. Application of basic principles of anthropology in a business, organizational, educational, political, or other appropriate settings. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: Anthro 101(P), 102(P), 103(P) or 360(P); 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

298 Study Abroad: Brazil. 3 cr. U. Three weeks in Brazil participating in seminars, visiting urban businesses, religious centers, squatter settlements, etc., and traveling to rural cattle ranches, sugar cane plantations etc. Prereq: none.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Human Evolution and Variation. 4 cr. U. Theory, mechanisms, and processes of biological evolution applied to problems of the primate and human fossil record and contemporary human populations. 2 hrs lec, 2 hrs lab. Prereq: soph
302 Anthropology and Popular Culture. 3 cr. U/G. Aspects of popular culture including music, information technology, tourism, and film, video, and museum-spectacles in light of anthropological theory. Prereq: jr st; grade of C or better in English 102(P) or score of 637 or higher on EPT.

304 Violence and Warfare in Prehistory. 3 cr. U/G. Archaeological evidence for the origin and maintenance of violence and warfare in prehistory. How archaeological inquiry is affected by current politics, ethics, and morality. Prereq: jr st; Anthro 103(P) or cons instr.

305 The Celtic World. 3 cr. U/G. Archaeology, folklore and literature of the Celtic peoples in the British Isles and on the continent, explored and analyzed from an anthropological and historical perspective. Prereq: jr st.

306 European Archaeology. 3 cr. U/G. Old World cultural development focusing on prehistoric Europe from the Paleolithic to the Roman period; European developments compared to other parts of the Old World. Prereq: jr st; Anthro 103(P) or cons instr.

307 World Archaeology: Foundations of Civilization. 3 cr. U/G. Cultural developments in selected areas of Old and New Worlds; emphasis on origins of plant and animal domestication, sedentary life, and transition to urban civilization. Prereq: jr st; Anthro 103(P) or cons instr.

308 Archaeology of North America. 3 cr. U/G. Main pre-Columbian cultures on the North American continent, north of Mexico. AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103(P) or cons instr.

309 Archaeology of Central and South America. 3 cr. U/G. Main pre-Columbian cultures and civilizations of Central and South America, including the Caribbean. Prereq: jr st; Anthro 103(P) or cons instr.

310 Archaeology of Middle America. 3 cr. U/G. Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest. AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103(P) or cons instr.

311 The World of the Ancient Maya. 3 cr. U/G. Historical development of ancient Maya civilization from its origins to the Spanish Conquest. AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103(P) or cons instr.

314 American Indian Societies and Cultures. 3 cr. U/G. Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy. AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

315 Peoples and Cultures of Mexico and Central America. 3 cr. U/G. Cultures of Mexico and Central America. Prereq: jr st; Anthro 102(R).

320 Peoples and Cultures of Africa. 3 cr. U/G. Description and analysis of the cultures of Africa, especially south of the Sahara. Prereq: jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.

322 Europe in Anthropological Perspective. 3 cr. U/G. Key topics in the anthropology of Europe, including nationalism and ritual, gender and politics, borders and immigration, and bureaucracy and citizenship. Prereq: jr st; Anthro 102(R).

325 Japanese Culture and Society. 3 cr. U/G. Japanese culture and society, including marriage and the family, work life, education, rural and urban social organization, gender, ritual and life cycle. Prereq: jr st; Anthro 102(R).

326 Peoples and Cultures of South Asia. 3 cr. U/G. The subcontinent south of the Himalayas, including India, Nepal,

328 Comparative Studies of Music, Race, and Gender in Nationalism. 3 cr. U/G. A comparative study of the processes of nation-formation and of the roles played by race, gender, and music in constructing national identities.|Prereq: jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.

335 American Indians of the Southeast. 3 cr. U/G. Description and analysis of Southeastern Indian cultures, including subsistence, sociopolitical organizations, beliefs, and Euro-American relations.|Prereq: jr st; Anthro 102(R) & 314(R).

340 Cultures of Online Games and Virtual Worlds. 3 cr. U/G. Anthropological understandings of online games and virtual worlds including: conceptual foundations, current topics, methodological issues, and first-hand experience.|Prereq: jr st.

349 Seminar in Ethnography and Cultural Processes. 3 cr. U/G. How sociocultural processes are confronted and represented through the genre of ethnography; new monographs used to chart innovations in the form.|Prereq: jr st; Anthro 102(R).

351 Anthropological Theories of Religion. 3 cr. U. Anthropological theories of religion covering magic and witchcraft, moral order, sacred and profane, alienation, capitalism, neurosis, ritual, fetishism, fundamentalism, conversion, sacrifice, and healing.|Anthro 351 & ReligSt 351 are jointly offered; they count as repeats of one another. Prereq: jr st.

354 Anthropology of Art. 3 cr. U/G. Styles, techniques, and aesthetics of the arts of non-Western peoples; their relation to other aspects of culture, prehistoric and contemporary art in selected areas.|Prereq: jr st; Anthro 102(R).

355 Globalization, Culture, and Environment. 3 cr. U. Anthropological approaches to examining the concept of environmental justice as a crucial component of global security.|Prereq: jr st; satisfaction of GER English Composition competency req.

361 Applications in Linguistic Anthropology. 3 cr. U/G. Advanced work in linguistic anthropology designed to give students applied skills in cross-linguistic studies.|Prereq: jr st; Anthro 105(360)(P) or cons instr.

362 System Failure: Globalization and Language Extinction. 3 cr. U/G. Role of globalization in the projected extinction of a large number of the world's languages within the next century.|AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another. Prereq: jr st; a course in social science; a course in linguistic anthro; or cons instr.

366 Seminar in Aspects of Linguistic Anthropology. 3 cr. U/G. Investigations of selected topics in linguistic Anthropology, such as discourse analysis, pragmatics.|Prereq: jr st & Anthro 105(360)(P); or grad st.


381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in cultural anthropology, ethnography, prehistory, and human evolution.|Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

400 Human Sociobiology. 3 cr. U/G. Application of the principles of evolutionary theory and behavioral ecology to the social and cultural life of humans and other primates.|Prereq: jr st; Anthro 101(R) or 102(R).

401 Primate Populations. 3 cr. U/G. Ecological behavioral genetic and multidisciplinary field studies of nonhuman primates.|Prereq: jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score of 637 or higher on EPT.

402 Primate Evolution. 3 cr. U/G. Evolution, adaptation, and distribution of living primates, including humans,
comparative primate adaptations and skeletal anatomy. Evolutionary theory and its application to the primate fossil record. [Prereq: jr st; Anthro 301(P) or cons instr.]

403 The Human Skeleton. 3 cr. U/G. Morphological and functional examination of the skeletal system. Microscopic and biomeical considerations of bone and cartilage, age, sex, and regional differences among modern human populations. Combined lec/lab. [Prereq: jr st; Anthro 301(P) or cons instr.]

404 Seminar in Human Evolutionary Physiology. 3 cr. U/G. Evolutionary principles influencing human populations. Variation within and between human groups. [Prereq: jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score level 4 on EPT.]

405 Forensic Anthropology. 3 cr. U/G. Techniques in the forensic analysis of human skeletal material. Introduction to death investigation and forensic pathology. [Prereq: jr st; Anthro 403(P).]

406 Evolutionary Biology & Human Diseases. 3 cr. U/G. Evolutionary principles applied to our understanding of infectious and chronic diseases common to human populations, both past and present. [Prereq: jr st; Anthro 301(R), Bio Sci 100(R) or 150(R).]

407 Neuroanthropology. 3 cr. U/G. Anthropological theories of human brain evolution, and its role in complex human cultural traits, including sociality, language, tool manufacture, cognition, and emotion. [Counts as repeat of Anthro 641 with same topic. Prereq: jr st; Anthro 101(P) or Bio Sci 150(P).]

408 Hormones and Behavior. 3 cr. U/G. Roles of hormones in evolution and expression of animal behaviors, particularly aggression, stress, mating, parenting, and cognition; emphasis on humans. [Counts as repeat of Anthro 641 w/same topic. Prereq: jr st; intro course in physical anthro, bio sci, or psych.]

409 Evolution, Religion, and Human Biology. 3 cr. U/G. Nature and evolutionary origins of human religion as well as empirical evidence for the effects of religion on human health. [Prereq: jr st; Anthro 101(P) or an intro bio sci course.]

420 Power and Ideology in Archaeology. 3 cr. U/G. Nature of and relationship between power and ideology in past societies; theoretical perspectives and methods used by archaeologists to study power and ideology. [Counts as a repeat of Anthro 641 w/similar title. Prereq: jr st; Anthro 103(P) or cons instr.]

421 Cities in the Ancient World. 3 cr. U/G. Cross-cultural comparison of the world's first cities; the emergence of cities and their role in the development of ancient civilizations. [Prereq: jr st; Anthro 103(P) or cons instr.]

424 (effective 09/02/2015) Ethnoarchaeology. 3 cr. U/G. Combination of ethnographic methods with archaeological research questions to achieve a better understanding of material culture. [Counts as a repeat of Anthro 641 w/same topic. Prereq: jr st; Anthro 102(P) or 103(P) or cons instr.]

425 Hunter-Gatherer Lifeways: Past and Present. 3 cr. U/G. Cross-cultural comparisons of hunter-gatherer societies, including archaeological, ethnohistorical, and ethnographic approaches. [Prereq: jr st; Anthro 102(P) or 103(P) or cons instr.]

426 Who Owns the Past? 3 cr. U/G. Social/political ramifications of the study, interpretation, presentation, conservation of the archaeological past; institutions/stakeholders involved in those processes: museums, scholars, ethnic groups, the public. [Counts as a repeat of Anthro 641 w/same topic. Prereq: jr st; Anthro 102(P) or 103(P) or cons instr.]

431 Cities and Culture. 3 cr. U/G. Cross-cultural analysis; relation of urban space to community, capitalism, migration, class, globalization, social and artistic movements; methods for ethnographic study. [Prereq: jr st; Anthro 102(R).]

440 Medical Anthropology. 3 cr. U/G. Comparative study of medical systems; cultural meaning of illness and the healing process; social origins of disease. [Prereq: jr st; Anthro 102(P); grade of C or better in English 102(P) or score of
### 441 Nature, Knowledge, and Technoscience in Anthropological Perspective. 3 cr. U/G. Anthropological approaches to contemporary issues of science in society; critical perspectives on knowledge construction with respect to culture and indigenous traditions, race, class and gender. Prereq: jr st

### 442 Humanitarianism in Global Perspective. 3 cr. U/G. Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking. Anthro 442 & Global 442 are jointly offered; they count as repeats of one another. Prereq: jr st; a social science course (P).

### 443 Medicine and Pharmaceuticals in the Global Age. 3 cr. U/G. The practices of medicine and the distribution of pharmaceuticals globally. Anthro 443 & Global 443 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 440(R).

### 445 Psychological Anthropology. 3 cr. U/G. The relationship between individual and society; cultural influences on cognition, personality, identity, and emotion; and the comparative study of mental disorder. Prereq: jr st; Anthro 102(R).

### 446 The Child in Different Cultures. 3 cr. U/G. Relationship of child development to particular cultural milieus; methods of child training in different cultures and their effects on the development of adult personality. Prereq: jr st; Anthro 102(R) or Psych 101(R) or Sociol 101(R).

### 447 The Global Politics of Human Rights. 3 cr. U/G. Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings. Anthro 447 & Global 447 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

### 448 Cultural and Human Ecology. 3 cr. U/G. Relationships of human societies to natural environments; energy systems involved in processes of human adaptation; ways in which culture and society operate as dynamic components of that exchange. Prereq: jr st; Anthro 102(R).

### 449 The Human Economy. 3 cr. U/G. Uses and allocation of resources; modes of production and distribution and their relationship to kinship, politics, and other aspects of culture. Prereq: jr st.

### 450 Political Anthropology. 3 cr. U/G. Political organization: forms of authority, responsibility, accountability, and power in societies at different levels of social complexity and in different ecological contexts. Prereq: jr st; Anthro 102(R).

### 460 Anthropological Theory. 3 cr. U/G. Critical examination of the development and current status of the major paradigms and theories employed in anthropological studies. Prereq: sr st; Anthro 102(R).

### 465 Historic Preservation in Archaeology. 3 cr. U/G. Historic preservation and cultural resource management in American archaeology; the legislative base, federal and state programs, the national register, regional planning, and research orientations. Prereq: jr st.

### 466 Historical Archaeology. 3 cr. U/G. Development of the historical archaeology discipline; issues of method and theory; use of documentary, oral, and material culture evidence to interpret the recent past. Counts as repeat of Anthro 641 with same topic. Prereq: jr st; Anthro 103 (P) or cons instr.

### 481 Criminalistics. 3 cr. U. Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony. Anthro 481, Chem 481, C L Sci 481, & Crm Jst 481 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P).

### 489 Internship in Anthropology, Upper Division. 1-6 cr. U. Application of advanced principles of anthropology in a
business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 2.25 gpa; cons supervising faculty member.

**497 Study Abroad: (Subtitled). 1-12 cr. U.** Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

**499 Ad Hoc: (Subtitled). 1-6 cr. U.** Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

**501 Archaeology of Death. 3 cr. U/G.** Archaeological study of mortuary behavior and osteology to understand cultural variability in social organization, disease, nutrition, and violence. Prereq: jr st; Anthro 103(P) or cons instr; grade of C or better in English 102(P) or score 637 or higher on EPT.

**502 (effective 09/02/2015) Lithic Analysis: Stone Tools and Human Behavior. 3 cr. U/G.** Stone tool production use, and archaeological analysis; experimental knapping, heat treatment, and other exercises. No cr for student w/cr in Anthro 641 w/similar topic. Prereq: jr st; Anthro 103(P) or cons instr.

**525 Zooarchaeology: Analysis of Faunal Remains. 3 cr. U/G.** Theory and method, including practical labs, in the analysis of animal remains from archaeological contexts. Prereq: jr st; Anthro 103(P) or cons instr.

**535 Analysis of Archaeological Ceramics. 3 cr. U/G.** Archaeological approaches to ceramic analysis including theory and methods; ethnoarchaeological, experimental, compositional, and stylistic approaches; practical skills including sorting, typing, and reporting ceramic assemblages. Counts as repeat of Anthro 641 with similar topic. Prereq: jr st; Anthro 103(P) or cons instr.

**540 Applications of Anthropology. 3 cr. U/G.** Uses of anthropological concepts, methods, and findings in human problems resulting from culture change. Prereq: jr st; Anthro 102(R).

**543 Cross-Cultural Study of Religion. 3 cr. U/G.** Various approaches to the study of religion; religions of selected non-Western societies. Prereq: jr st; Anthro 102(R).

**544 Religious Giving in Anthropological Perspective. 3 cr. U.** Seminar on religious directives for giving in historical and cross-cultural perspective, including Christian, Hindu, Buddhist, Muslim, and Jewish ideas of charity, philanthropy, and social welfare. Anthro 544 & ReligSt 544 are jointly offered; they count as repeats of one another. Prereq: jr st.

**560 Introduction to Research Methods in Anthropology. 3 cr. U/G.** Problem and research design formulation. How to ask and answer scientific questions using methods and techniques common to all fields of anthropology. Prereq: jr st; Anthro 102(R).

**561 Techniques and Problems in Ethnography. 3 cr. U/G.** Methods of fieldwork for cultural anthropologists; design of field studies; techniques for collection and analysis of field data; field projects. Prereq: jr st; Anthro 102(R).

**562 Techniques and Problems in Archaeology. 3 cr. U/G.** Methods of fieldwork in archaeology; strategies of archaeological investigations; introduction to archaeological site mapping Lec, lab. Prereq: jr st; Anthro 103(P) or cons instr.

**565 Seminar in Regional Archaeology: (Subtitled). 3 cr. U/G.** Seminar in archaeology of specific geographic areas. Consult Schedule of Classes for specific semester's content. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Anthro 103(P) or cons instr.

**566 Archaeological Analysis and Report Preparation: (Subtitled). 3 or 6 cr. U/G.** Students will organize, describe, analyze, and interpret actual archaeological materials. Each student will assist in writing an archaeological report. Fee
assessed according to nature and location of field trips. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Anthro 103(P) or cons instr.

### 567 Archaeological Field School. 3 or 6 cr. U/G.  
Archaeological methods and techniques under field conditions, at one or more sites. Field work five days a week, evening lectures. Fee assessed according to nature and location of field school. Retakable to 9 cr max. Prereq: jr st; cons instr.

### 568 Introduction to Anthropological Statistics. 3 cr. U/G.  
Statistical models and their basic assumptions; statistical inference in biological and cultural anthropology; probability theory; nonparametric and parametric methods. Prereq: jr st; Anthro 101(P) or 102(P) or 103(P) or cons instr.

### 570 Issues in Bilingualism. 3 cr. U/G.  
Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints. Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another. Prereq: jr st.

### 585 Internship in Forensic Toxicology. 1-3 cr. U.  
Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist. Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

### 589 Internship in Death Investigation. 1-3 cr. U.  
Practical experience in death investigation under the supervision of a death investigator and forensic pathologist. Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 589 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci certif prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.

### 594 Internship in Forensic Science. 1-3 cr. U.  
On-site shadowing of evidence analyst at State Crime Laboratory. Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

### 636 Geochronology. 3 cr. U/G.  
Theory and application of radiometric and other numerical dating methods in geology, archaeology, and paleoanthropology. Anthro 636 & Geo Sci 636 are jointly offered; they count as repeats of one another. Prereq: jr st, Anthro 101(P) or 103(P) or Geo Sci 100(P), & cons instr; or grad st & cons instr.

### 641 Seminar in Anthropology: (Subtitled). 3 cr. U/G.  
A research seminar in any of the several recognized areas of anthropology. Retakable w/chg in topic to 9 cr max. Prereq: jr st, Anthro 101(P) or 102(P) or 103(P); or grad st.

### 651 Biology of the Primates. 3 cr. U/G.  
Gross and microscopic functional anatomy, molecular biology, distribution, adaptation, and behavior of living nonhuman primates as related to problems of human biology and human evolution. Prereq: sr st; Anthro 301(P) or cons instr.

### 699 Independent Work. 1-3 cr. U.  
Advanced independent work under the supervision of an Anthro faculty or instructional academic staff member. Students must submit a study proposal. For further information, consult dept undergrad prog coord. Retakable w/chg in topic. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, & assoc dean for SAS.

*This course information produced at 01:00 on 07/30/2015.*
101 First Semester Arabic. 5 cr. U. For students with no previous knowledge of Arabic. Emphasis on one standard dialect. Language laboratory required. Open to native speakers of Arabic only w/cons instr. Prereq: none.

102 Second Semester Arabic. 5 cr. U. Elements of reading and writing contemporary literary Arabic. Open to native speakers of Arabic only w/cons instr. Prereq: Arabic 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

111 Cultures and Civilizations of the Muslim Middle East. 3 cr. U. Muslim Middle East through historical and ethnographic materials; reading of Quran and some modern literature. Prereq: none.


197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.


202 Fourth Semester Arabic. 5 cr. U. Continuation of 201. Noun forms. Use of cases. Particles and prepositions. Introduction to Arabic verse. Open to native speakers of Arabic only w/cons instr. Prereq: Arabic 201(P). Generates L&S credit for demonstrated equivalent preparation (12 retro crs).

289 Internship in Arabic, Lower Division. 1-6 cr. U. Application of basic principles of Arabic in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Arabic; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course
work level, content, and credits are determined and/or in specially prepared course work.|Retakable w/chg in topic. 
Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Fifth Semester Arabic. 3 cr. U. Continuation of Arabic 202. Root and pattern systems; complex sentence structure; continued development of conversation and writing skills; strategies in reading culturally-oriented texts.|Open to native speakers of Arabic only w/cons instr. Generates L&S credit for demonstrated equivalent preparation (16 retro crs). Prereq: Arabic 202(P).

302 Sixth Semester Arabic. 3 cr. U. Continuation of Arabic 301. More complex grammatical forms; vocabulary building principles; continued development of skills in conversation, reading, writing, culturally-oriented readings, and films.|Open to native speakers of Arabic only w/cons instr. Prereq: Arabic 301(P). Generates L&S credit for demonstrated equivalent preparation (16 retro crs).

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

404 Introduction to Translation: Arabic to English. 3 cr. U. Translating a variety of texts from Arabic to English, including media articles, political texts, and literary and consumer-oriented texts. Identifying and developing translation strategies.|Prereq: jr st; grade B or better in Arabic 302(P) or equiv, or cons instr.

489 Internship in Arabic, Upper Division. 1-6 cr. U. Application of advanced principles of Arabic in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Arabic; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

514 Advanced Translation: Arabic to English. 3 cr. U. Translating texts from Arabic to English, including media articles, political texts, literary and consumer-oriented texts. Identifying and developing translation strategies; proofreading and editing own work.|Prereq: Arabic 404(P) or cons instr.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Advanced Independent Study. 1-3 cr. U. Advanced independent work under the supervision of a faculty member. For more information, consult dept chair.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 gpa; cons instr, dept chair, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
ARCH Architecture

100 Architectural Making I. 3 cr. U. An introductory course about architecture and architectural making. 2D and 3D form and space tested through the theoretical, pragmatic, and contextual issues that influence architecture. |Prereq: none.

101 Introduction to Architectural Theory. 3 cr. U. A survey of architectural design theory through research analysis and criticism of works and ideas of significant architects and architectural theorists. |Prereq: none.

102 (effective 09/02/2015) Architectural Thinking I. 3 cr. U. Broad overview of the histories and theories that have shaped the discipline of architecture: its histories, theories and methodologies. |Prereq: none.


104 (effective 09/02/2015) Architectural Thinking II. 3 cr. U. Canonical buildings since 1800 alongside their accompanying theoretical texts are evaluated within the discipline and allied fields of inquiry. |Prereq: none.

110 New Student Orientation. 1 cr. U. An overview of the School of Architecture and Urban Planning, the architecture and urban planning professions, academic requirements, and student resources. |Prereq: none.

190 Special Topics: (Subtitled). 1-3 cr. U. Presentation of new material on experimental basis. Material appropriate for testing interest and ability in architecture. Specific credits and any prereqs announced in Schedule of Classes whenever course is offered. |Retakeable w/topic change to 9 cr max. Prereq: none.

280 Introduction to Architectural Drawing. 3 cr. U. Fundamentals of architectural drawing skills and analytical processes using a variety of media. |Prereq: none.

281 Virtual Modeling. 3 cr. U. Introduction to modeling, rendering and other digital methods used in architectural design. |Prereq: Arch 320(C).

282 (effective 09/02/2015) Visualization 1. 3 cr. U. Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing. |Prereq: Arch 100(P) & 101(P); or cons instr.

283 (effective 09/02/2015) Visualization 2. 3 cr. U. Exploration of the potential for representation to communicate
generative, atmospheric, and presentational qualities. | Prereq: Arch 282(P).

300 Architectural History and Theory. 3 cr. U/G. Introduction to architectural history and its theoretical base. The course covers classical architecture to the present, focusing on the theories underlying architecture of a period. | Prereq: acceptance to Level 2 or arch studies minor; or grad st.

301 Architectural Structures & Construction. 3 cr. U/G. The behavior of structures, structural materials and planning, and the construction of buildings. | Prereq: acceptance to level 2 or arch studies minor & Arch 305(210)(P); or grad st.

301 (effective 09/02/2015) Architectural Structures & Construction. 3 cr. U/G. The behavior of structures, structural materials and planning, and the construction of buildings. | Prereq: acceptance to level 2 or arch studies minor; or grad st.

302 Architecture and Human Behavior. 3 cr. U/G. Introduction to behavioral, social and cultural factors and their implications for the design and planning of the built environment. | Prereq: jr st & acceptance to level 2 or arch studies minor; or grad st.

303 Architecture and Environmental Response. 3 cr. U/G. Investigation of environmental control and life safety requirements and their implications on architectural form and design. | Prereq: jr st, acceptance to Level 2 or arch studies minor & Arch 305(210)(P); or grad st.

303 (effective 09/02/2015) Architecture and Environmental Response. 3 cr. U/G. Investigation of environmental control and life safety requirements and their implications on architectural form and design. | Prereq: acceptance to level 2 or arch studies minor; or grad st.

304 (effective 09/02/2015) Contemporary Criticism and Urbanism. 3 cr. U/G. Disciplinary methods and themes through rigorous readings of texts and objects concerning contemporary architectural criticism, and histories and theories of urban form and urban planning. | Prereq: jr st.

305 (210) Introduction to Building Technologies. 3 cr. U. An investigation of building technologies to develop an understanding of the systems that make up a building and influence the form, texture and character of the built environment. | Prereq: acceptance to Level 2 or arch studies minor.

310 Fundamentals of Architectural Design I. 6 cr. U. Formal concepts that order the production of architecture, using physical and virtual models, sketches, and drafted, scaled, orthographic drawings. Issues related to site, function and environment. | Prereq: acceptance to Level 2.

320 (effective 09/02/2015) Fundamentals of Architectural Design II. 6 cr. U. Architectural design as a synthetic discipline that considers material/spatial experience, contextual analysis, formal concepts, and social/cultural relationships. Material/graphic representation explored in models, drawings, collage and renderings. | Prereq: Arch 310(P).

320 Fundamentals of Architectural Design II. 6 cr. U. Architectural design as a synthetic discipline that considers material/spatial experience, contextual analysis, formal concepts, and social/cultural relationships. Material/graphic representation explored in models, drawings, collage and renderings. | Prereq: Arch 210(P), 300(P) & 310(P).

326 Energy Design Fundamentals. 3 cr. U/G. Energy-related issues as they apply to site planning and architectural design, including thermal comfort, site climate analysis, building thermal response, and solar system design. | Prereq: jr st; acceptance to Level 2 or arch studies minor & Arch 301(P); or grad st.

326 (effective 09/02/2015) Energy Design Fundamentals. 3 cr. U/G. Energy-related issues as they apply to site planning and architectural design, including thermal comfort, site climate analysis, building thermal response, and solar system design. | Prereq: jr st.
330 Design Methodology. 3 cr. U/G. Survey of the different methods and techniques used to solve problems encountered in architectural design.|Prereq: jr st, acceptance to Level 2 or arch studies minor & Arch 300(P); or grad st.

340 Urban Design. 3 cr. U/G. Survey of urban design, including the study of precedents, recent philosophy, design vocabulary, behavioral responses, and implementation strategies.|Prereq: jr st; acceptance to Level 2 or arch studies minor & Arch 300(P); or grad st.

350 Greening Milwaukee. 3 cr. U. City wide environmental organizations are organized into lecture series on the state of sustainable issues. Thirty hours of service are required.|Prereq: soph st.

380 Drawing in Architecture. 3 cr. U/G. Visual communication skills are developed in relation to basic design theory and architectural design process.|Prereq: jr st & acceptance to level 2 or arch studies minor; or grad st.

382 Introduction to Building Information Modeling (BIM). 3 cr. U/G. Principles of Building Information Modeling and the interface and workflow of Autodesk's Revit.|Prereq: jr st & acceptance to level 2 or arch studies minor; or grad st.

383 Landscape Architecture. 3 cr. U/G. Introduction to the history of landscape architecture as well as the process of contemporary landscape architecture and its relationship to contemporary architecture.|Prereq: jr st & acceptance to level 2 or arch studies minor; or grad st.

390 Special Topics: (Subtitled). 1-3 cr. U. Provides a format for the development and presentation of new material. Specific credits and any additional prereqs announced in Schedule of Classes whenever course is offered.|Retakeable with change in topic to max of 12 cr. Prereq: jr st; acceptance to Level 2 or arch studies minor.

391 Directed Research. 3 cr. U. Student participation in research projects under faculty supervision.|Not retakeable for cr. Prereq: jr st; acceptance to Level 2 or arch studies minor & cons instr.

392 Independent Studies. 3 cr. U. Independent investigation of issues related to architecture.|Not retakeable for cr. Prereq: jr st; acceptance to Level 2 or arch studies minor & cons instr.

410 Architectural Design I. 6 cr. U. Design projects explore basic issues: clients' needs; site planning; masonry, wood, and steel construction; health and safety. Composition employs analysis of precedent.|Prereq: Arch 301(P) & 320(P).

410 (effective 09/02/2015) Architectural Design I. 6 cr. U. Design projects explore basic issues: clients' needs; site planning; masonry, wood, and steel construction; health and safety. Composition employs analysis of precedent.|Prereq: Arch 320(P).

420 (effective 09/02/2015) Architectural Design II. 6 cr. U. Design projects explore complex contexts and programs. Solutions employ hybrid construction technologies, and codes for safety and accessibility; they also integrate interior and exterior spaces.|Prereq: Arch 410(P).

420 Architectural Design II. 6 cr. U. Design projects explore complex contexts and programs. Solutions employ hybrid construction technologies, and codes for safety and accessibility; they also integrate interior and exterior spaces.|Prereq: Arch 303(P) & 410(P).

497 Study Abroad: (Subtitled). 3-12 cr. U. Studio and/or field study designed to provide relevant course work for a study abroad program in architecture.|Retakeable w/chg in topic. Prereq: acceptance to Level 2 or arch studies minor & Study Abroad Program.

510 Survey of Structural Analysis and Design. 3 cr. U/G. Statics, strength of materials and analysis of simple structural elements and systems. Design and economics of simple building structures.|Prereq: sr st & Arch 301(P); or grad st.
516 Building Construction. 3 cr. U/G. Review and analysis of architectural construction systems in relation to building projects of various scales. Construction techniques and contract documentation are covered.|Prereq: sr st; Arch 301(P) & Arch 410(P); or grad st.

520 Environmental Systems: Illumination and Thermal Comfort. 3 cr. U/G. The impact of visual and thermal comfort requirements on the design of building enclosures, lighting systems and HVAC systems.|Prereq: sr st, Arch 301(P) & 303(P); or grad st.

521 Environmental Systems: Resources-Fluid Distribution Systems. 3 cr. U/G. Water resources supplies and treatment, distribution and disposal systems. Atmospheric and thermal comfort. Air treatment, distribution systems, and related energy systems for human comfort.|Prereq: sr st & Arch 303(P); or grad st.

522 Environmental Systems: Lighting and Acoustical Design. 3 cr. U/G. The development and application of visual/auditory comfort criteria, lighting and acoustical design, and their architectural design implications.|Prereq: sr st & Arch 303(P); or grad st.

531 Historic Concepts of Architecture. 3 cr. U/G. Examination of concepts and theories of architecture and urban design before the modern movement; includes typological, formal, technological and philosophical analysis.|Prereq: sr st; Arch 300(P); or grad st.

532 Modern Concepts of Architecture. 3 cr. U/G. Examination of concepts and theories of architecture and urban design since the modern movement; includes typological, formal, technological and philosophical analysis.|Prereq: sr st & Arch 300(P); or grad st.

533 Topics in Architectural Theory: (Subtitled). 3 cr. U/G. This variable content course will focus on the study of a particular architectural theory or the work of an individual architect and its theoretical base.|Retakeable with change in topic to max of 6 cr. Prereq: sr st & Arch 300(P) or grad st.

534 Field Study: (Subtitled). 3 cr. U/G. Theoretical developments and their historical contexts are explored in a particular setting. Focus and setting are announced in advance.|Retakeable with change in topic to max of 6 cr. Prereq: jr st; Arch 300(P).

535 Pattern Language. 3 cr. U/G. Examination of the work of Christopher Alexander and the Center of Environmental Structure seeking to develop a design theory sensitive to context, user, and form.|Prereq: sr st & Arch 300(P); or grad st.

550 Seminar in Building Types and Settings. 3 cr. U/G. Development and usage of various building types and settings based upon social, behavioral, political, and economic factors.|Prereq: sr st, & Arch 300(P) or 302(P), or cons instr.

551 American Vernacular Architecture. 3 cr. U/G. Introductory seminar on the historical development of all forms of vernacular and popular architecture. Buildings are analyzed in detail within their cultural contexts.|Prereq: sr st & Arch 300(P); or grad st.

553 Vernacular Buildings and Groupings. 3 cr. U/G. Study of the patterns and characteristics of human settlements and individual structures built according to local traditions.|Prereq: sr st & Arch 302(P); or grad st.

557 Behavioral Factors in Housing Design. 3 cr. U/G. Review of behavioral, social, and cultural factors in housing design. Discussion of findings and their impact on design.|Prereq: sr st & Arch 302(P) or cons instr; or grad st.

559 Aging and the Environment. 3 cr. U/G. Seminar on aging, human services, and the built environment. Implications for policy, planning, and design. Special attention to urban planning, urban design, housing, and clinical facilities.|Prereq: sr st & Arch 302(P); or cons instr; or grad st.

560 Introduction to Historic Preservation. 3 cr. U/G. Research, discussion and case study development to explore
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<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Level</th>
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<tbody>
<tr>
<td>561</td>
<td>Measured Drawing for Architects</td>
<td>3 cr.</td>
<td>U/G</td>
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<tr>
<td>562</td>
<td>Preservation Technology Laboratory</td>
<td>3 cr.</td>
<td>U/G</td>
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<tr>
<td>580</td>
<td>Graphic Techniques for Architects</td>
<td>3 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>581</td>
<td>Law and Professional Practice for Architects</td>
<td>3 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>582</td>
<td>Advanced Computer Applications in Architecture</td>
<td>3 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>583</td>
<td>Emerging Digital Technology: (Subtitled)</td>
<td>3 cr.</td>
<td>U/G</td>
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<tr>
<td>584</td>
<td>Urban Landscape Architecture</td>
<td>3 cr.</td>
<td>U/G</td>
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<tr>
<td>585</td>
<td>Research Methods in Architecture</td>
<td>3 cr.</td>
<td>U/G</td>
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<tr>
<td>586</td>
<td>Programming for Architectural Design</td>
<td>3 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>587</td>
<td>Post-Occupancy Evaluation of Built Environments</td>
<td>3 cr.</td>
<td>U/G</td>
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<tr>
<td>615</td>
<td>Studies in Architectural Technology and Theory: (Subtitled)</td>
<td>6 cr.</td>
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<td>633</td>
<td>Chicago Design Critic Studio</td>
<td>6 cr.</td>
<td>U</td>
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<tr>
<td>634</td>
<td>Distinguished Visiting Design Critic Studio</td>
<td>6 cr.</td>
<td>U</td>
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635 Studies in Architectural History and Precedent: (Subtitled). 6 cr. U. Intermediate design studio emphasizing precedent analysis, historical analysis and historical preservation theories and methods. Retakeable with change in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

636 Studies in Form and Composition: (Subtitled). 6 cr. U. Intermediate design studio emphasizing formal compositional theories and methods. Retakeable with change in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

637 Competitions Studio. 6 cr. U. Intermediate design studio utilizing architectural competitions to focus on concept development, technical competence, and graphic presentation. Prereq: sr st; Arch 420(P) or cons dept chair.

645 Studies in Urban and Community Design Theory: (Subtitled). 6 cr. U. Intermediate design studio emphasizing urban and community design theories and methods. Retakeable with change in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

675 Studies in Facility Planning and Design: (Subtitled). 6 cr. U. Intermediate design studio emphasizing facility planning and design theories and methods. Retakeable with change in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

685 Studies in Building Typology: (Subtitled). 6 cr. U. Intermediate design studio emphasizing the relationship among building use, formal pattern and institutional history. Retakeable with change in topic to max of 12 cr. Prereq: sr st; Arch 420(P).

692 Foreign Studies Studio: (Subtitled). 6 cr. U/G. Design fieldwork in foreign setting stressing historical context, site analysis, urban design and theoretical issues. Thematic focus determined by faculty directing program. Not retakeable for cr. Prereq: jr st; Arch 410(P) or cons dept chair.

This course information produced at 01:00 on 07/30/2015.


105 Art & Design Lecture Series. 3 cr. U. Introduction to contemporary art and design as presented through artist lecture series; addresses themes of form, function, criticism and audience relative to contemporary art practice. Prereq: none.

106 Art Survey. 3 cr. U. Introduction to the visual arts disciplines and contemporary critical concerns. Course themes investigate inter-relations between technical process and expressive intent. Prereq: none.


118 (effective 09/02/2015) Digital Arts: Culture, Theory, Practice. 3 cr. U. Introduction to electronic art and imaging. Focus on historical and cultural contexts, theoretical concepts and studio skills using imaging software. Prereq: none.

118 Digital Arts: Culture, Theory, Practice. 3 cr. U. Introduction to electronic art and imaging. Focus on historical and cultural contexts, theoretical concepts and studio skills using imaging software. Prereq: none.
124 Design Survey. 3 cr. U. Survey of design disciplines and movements of the 19th, 20th and 21st centuries. Slide lectures include industrial design, architecture, graphic design, and design movements.|Prereq: none.

150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences.|Cultures and Communities Prog course; req'd service learning component. Jointly offered with & counts as repeat of Film 150. Prereq: none.

152 (effective 09/02/2015) Photography Survey. 3 cr. U. Survey of photographic processes and movements of the 19th, 20th, and 21st centuries, with emphasis on historical and cultural contexts that shaped the application of the medium.|Prereq: none

201 (102) Drawing II. 3 cr. U. Expanded development of drawing materials, methods and expression; focus on conceptual and perceptual process.|Prereq: Art 101(P).

207 Undergraduate Research Assistantship in Art and Design. 1-3 cr. U. An opportunity for freshmen and sophomores to work collaboratively with an Art and Design faculty member on a specific and sustained research project.|May be retaken to 6 cr max. Prereq: admis to First Year Prog or Art & Design, & cons instr.

208 Color Studio. 3 cr. U. Expanded exploration of the art and science of color for studio media; focus on pigment, screen and digital output.|Prereq: Art 101(P), 108(P); or cons instr.

212 (effective 09/02/2015) Introduction to Digital Studio: A/V Strategies. 3 cr. U. Introduction to time based technologies for artists and designers; includes audio, video, and animation techniques. Surround sound, lighting, green screen, and visual effects are examined.|Prereq: Art 101(P), 108(P), & 118(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Math Placement Code 30, or cons instr.

212 Introduction to Digital Studio Practice. 3 cr. U. Introduction to digital and time-based images; includes digital video camera basics, pixels as data for art production, digital form, and projections in space and installations.|Prereq: Art 101(P), 108(P), & 118(P); Math 103(106)(C), Math 105 (C), or Math Placement Code 30; or cons instr

218 2D Design Strategies. 3 cr. U. Introduction to problem solving using the basics of drawing and elements & principles of design; includes composition & color theory.|Not open to Art & Design and Art Ed majors. Prereq: none.

221 (effective 09/02/2015) Introduction to Design. 3 cr. U. Introduction to computer as design and production tool for graphic design, use software to create graphics, edit images and design complex layouts.|Prereq: Art 101(P), 106(P), 108(P), & 118(P); or admis to Inter-Arts/IAT prog & Art 118(P); Math 102(C), 103(C), 105(C), 108(C), or Math Placement Code 30; or cons instr.

221 (228) Introduction to Design. 3 cr. U. Introduction to computer as design and production tool for graphic design, use software to create graphics, edit images and design complex layouts.|Prereq: Art 101(P), 106(P), 108(P), & 118(P); or admis to Inter-Arts/IAT prog & Art 118(P); Math 103(106)(C), 105(C), or Math Place Code 30 (GER Quant Lit Part A req); or cons instr.

223 Introduction to Typography. 3 cr. U. Introduction to the fundamentals of designing with type; emphasis on formal design skills, type history, conceptual problem-solving.|Prereq: Art 101(P), 106(P), 108(P), 109(P), 118(P) & 221(C); Math 103(106)(C), 105(C), or Math Place Code 30 (GER Quant Lit Part A req); or cons instr.

223 (effective 09/02/2015) Introduction to Typography. 3 cr. U. Introduction to the fundamentals of designing with type; emphasis on formal design skills, type history, conceptual problem-solving.|Prereq: Art 101(P), 106(P), 108(P), 109(P), 118(P) & 221(C); Math 102(C), 103(C), 105(C), 108(C), or Math Placement Code 30; or cons instr.

224 Dynamic Typography. 3 cr. U. Fundamentals of designing with type; emphasis on formal design skills, conceptual
224 (effective 09/02/2015) Dynamic Typography. 3 cr. U. Fundamentals of designing with type; emphasis on formal design skills, conceptual problem solving. Focus on screen-based projects and type in motion, some print design. Prereq: Art 101(P), 108(P), & 118(P); or pre-Inter-Arts/IAT prog; Math 102(C), 103(C), 105(C), or Math Placement Code 30; or cons instr.

227 (effective 09/02/2015) Design Workshop: (Subtitled). 3 cr. U. A concept oriented workshop in graphic design. Retakable w/chg in topic to max of 6 cr. Prereq: see Schedule of Classes. Math 102(C), 103(C), 105(C), 108(C), or Math Placement Code 30; or cons instr.

227 Design Workshop: (Subtitled). 3 cr. U. A concept oriented workshop in graphic design. Retakable w/chg in topic to max of 6 cr. Prereq: see Schedule of Classes. Math 103(106)(C), 105(C), or Math Placement Code 30 (GER Quant Lit Part A req); or cons instr.

231 Introduction to Fibers. 3 cr. U. Introduction to fiber materials and processes and contemporary aesthetic consideration in fiber arts. Prereq: Art 101(P), 106(P); & 108(P) or 109(P); Math 103(106)(C), 105(C), or Math Placement Code 30 (GER Quant Lit Part A req); or cons instr.

231 (effective 09/02/2015) Introduction to Fibers. 3 cr. U. Introduction to fiber materials and processes and contemporary aesthetic consideration in fiber arts. Prereq: Art 101(P), 106(P); & 108(P) or 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Math Placement Code 30; or cons instr.

238 (effective 09/02/2015) Fiber Workshop: (Subtitled). 3 cr. U. Special topics course in fibers. Retakable w/chg in topic to 6 cr max. Prereq: see Schedule of Classes; or cons instr.

238 Fiber Workshop: (Subtitled). 3 cr. U. Special topics course in fibers. Retakable w/chg in topic to 6 cr max. Prereq: see Schedule of Classes; Math 103(106)(C), 105(C), or Math Placement Code 30; or cons instr.

243 Introduction to Painting. 3 cr. U. Exploration of oil painting medium including color and construction of pictorial space. Work primarily from observation, investigating range of motifs and personal content. Prereq: Art 101(P), 106(P), & 108(P); Math 103(106)(C), 105(C), or Math Placement Code 30; or cons instr.

243 (effective 09/02/2015) Introduction to Painting. 3 cr. U. Exploration of oil painting medium including color and construction of pictorial space. Work primarily from observation, investigating range of motifs and personal content. Prereq: Art 101(P), 106(P), & 108(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Math Placement Code 30; or cons instr.

249 Painting and Drawing Workshop: (Subtitled). 1-3 cr. U. Special topic course in painting and drawing. Retakable w/chg in topic to 6 cr max. Prereq: admis to Art and Design Prog.

253 (effective 01/25/2016) Introduction to Photography. 3 cr. U. Fundamental aesthetics/techniques of darkroom/digital photography using digital cameras & 35mm SLR film cameras; focus on camera operation, image exposure, printing practice for b/w compositions. Prereq: Art 108(P), or 118(P), or 152(P), or Film 117(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Math Placement Code 30; or cons instr

253 (251) Introduction to Photography. 3 cr. U. Fundamental aesthetics and techniques of black & white photography concentrating on 35mm camera operation, film exposure and darkroom practice. Jointly offered with & counts as repeat of Film 253. Prereq: Art 101(P), 106(P) & 108(P); or Film 116(P) & 117(P) & either 114(214)(P) or 210(P); Math 103(106)(C), 105(C), or Math Place Code 30 (GER Quant Lit Part A req); or cons instr.

259 Photography Workshop: (Subtitled). 1-3 cr. U. A short term, special topic course in photography. Jointly offered
259 (effective 01/25/2016) Beginning Photographic Workshop: (Subtitled). 1-3 cr. U. Beginning special topic workshop course in photography. Retakable with topic change to 6 cr max. Prereq: admis to Art and Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.

261 Introduction to Sculpture. 3 cr. U. Basic experiences in various sculpture media with an emphasis on the aesthetic interrelationship of techniques and concept. Prereq: Art 101(P), 106(P) & 109(P); Math 103(106)(C), Math 105(C), or Math Place Code 30 (GER Quant Lit Part A req); or cons instr.

261 (effective 09/02/2015) Introduction to Sculpture. 3 cr. U. Basic experiences in various sculpture media with an emphasis on the aesthetic interrelationship of techniques and concept. Prereq: Art 101(P), 106(P) & 109(P); Math 102(C), 103(C), 105(C), or 108(C), or Math Placement Code 30; or cons instr.


271 Introduction to Jewelry and Metalsmithing. 3 cr. U. Introduction to major aspects of metalworking and jewelry. Develop design skills and technical competency and explore metalsmithing as an art form. Outside class work required. Prereq: Art 101(P), 106(P), & 109(P); Math 103(106)(C), Math 105(C), or Math Placement Code 30; or cons instr.

271 (effective 09/02/2015) Introduction to Jewelry and Metalsmithing. 3 cr. U. Introduction to major aspects of metalworking and jewelry. Develop design skills and technical competency and explore metalsmithing as an art form. Outside class work required. Prereq: Art 101(P), 106(P), & 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Math Placement Code 30; or cons instr.

277 Design for Digital Fabrication. 3 cr. U. Introduction digital design, drawing and fabrication using 3D modeling software and output devices such as 3D printers and laser cutters. Prereq: Art 118(P) or equiv; or cons instr.

278 (effective 09/02/2015) Introduction to Industrial Craft. 3 cr. U. Introduction to fabrication methods, materials and techniques for problem-solving in the design of physical objects. Prereq: Art 277(C); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Math Placement Code 30; or cons instr.

278 Introduction to Industrial Craft. 3 cr. U. Introduction to fabrication methods, materials and techniques for problem-solving in the design of physical objects. Prereq: Art 277(C); or cons instr.

279 Jewelry and Metalsmithing Workshop: (Subtitled). 1-3 cr. U. Special topics workshop in jewelry and metalsmithing. Retakable w/chg in topic to 6 cr max. Prereq: see Schedule of Classes.

281 (effective 09/02/2015) Introduction to Ceramics. 3 cr. U. Handbuilding, surface embellishment and glazing of functional and sculptural ceramic forms. Slide lectures of historical and contemporary approaches to the medium. Prereq: Art 101(P), 106(P), & 109(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Math Placement Code 30; or cons instr.

281 Introduction to Ceramics. 3 cr. U. Handbuilding, surface embellishment and glazing of functional and sculptural ceramic forms. Slide lectures of historical and contemporary approaches to the medium. Prereq: Art 101(P), 106(P), & 109(P); Math 103(106)(C), Math 105(C), or Math Placement Code 30; or cons instr.


291 (effective 09/02/2015) Introduction to Print and Narrative Forms. 3 cr. U. Introduction to basic studio practices,
skills, and materials including plates, presses, inks, and image processing. [Prereq: Art 101(P), 106(P), & 108(P); Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Math Placement Code 30; or cons instr.]

**291 Introduction to Print and Narrative Forms. 3 cr. U.** Introduction to basic studio practices, skills, and materials including plates, presses, inks, and image processing. [Prereq: Art 101(P), 106(P), & 108(P); Math103(106)(C), Math105(C), or Math Place Code 30 (GER Quant Lit Part A req); or cons instr.]

**297 Study Abroad: (Subtitled). 1-12 cr. U.** Studio and special problems designed to provide relevant course work for a study abroad in the visual arts. [May be retaken with topic change. Prereq: admis to Art and Design Prog; acceptance in Study Abroad Prog.]

**299 Printmaking Workshop: (Subtitled). 3 cr. U.** A special topic workshop in Print & Narrative Forms. [Retakable w/chg in topic to 6 cr max. Prereq: see Schedule of Classes.]

**302 Art and Design Workshop: (Subtitled). 3 cr. U/G.** Special topic course in Art and Design. [May be retaken with topic change to 6 cr max. Prereq: jr st, & admis to Art and Design prog or to IAT; or grad st.]

**306 Introduction to Community Art. 3 cr. U.** Study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals. [Prereq: admis to Art & Design, Multicultural America 150(P) (in any area).]

**309 Issues in Contemporary Art: (Subtitled). 3 cr. U.** Lecture course focused on critical issues/theory in contemporary art and culture. [Retakeable with topic change to 6 cr max. Prereq: soph st or cons instr.]

**312 (326) (effective 09/02/2015) Intermediate Digital Studio. 3 cr. U/G.** Students investigate the relationship between concept, material, process, aesthetic, and context in artmaking. Then, students are encouraged to integrate digital and traditional approaches to production. [Prereq: jr st & admis to Art & Design prog or IAT prog; & Art 212(P) or Film 222(P); or grad st; or cons instr.]

**312 (326) Video and Audio Strategies for Artists and Designers. 3 cr. U/G.** Video & audio strategies for documentation, investigation, experimentation, installation. Storyboarding, camera use, digital effects, editing, and various forms of viewing and distribution. [Prereq: jr st & admis to Art & Design prog or IAT prog; & Art 212(P) or Film 222(P); or grad st; or cons instr.]

**313 Programming for Artists I. 3 cr. U/G.** An introduction to principles and applications of computer programming languages within art practice. [Art 313 & FineArt 313 are jointly offered; they count as repeats of one another. Prereq: Jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.]

**314 (effective 09/02/2015) Digital Painting. 3 cr. U.** Use image-editing/painting software and tablets to generate digital paintings. Traditional rendering techniques will be considered along with color and kinetic concepts. [Counts as repeat of Art 302 w/same topic. Prereq: Soph st & Art 118 (P); or cons instr.]

**315 Participatory Art and Social Practice. 3 cr. U/G.** Students study installation and eco-art, participatory art and social practice, and incorporate contemporary concepts and their strategies into individual and collaborative work. [Counts as repeat of Art 327 w/similar topic. Prereq: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.]

**316 Interactive and Multimedia Art. 3 cr. U/G.** An introduction to interactive art objects and installations using computer vision, signal processing, and/or MIDI and USB technologies. [Art 316 & FineArt 316(211) are jointly offered; they count as repeats of one another. Prereq: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.]

**317 3D Imaging I. 3 cr. U/G.** An introduction to 3D imaging techniques and applications. [Prereq: jr st; admis to Art and Design prog or Inter-Arts/IAT prog; grad st; or cons instr.]
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>318</td>
<td>Electronics and Sculpture.</td>
<td>3 cr. U.</td>
<td>Art production using interactive systems such as sensors, microcontrollers, motors, lights.</td>
</tr>
<tr>
<td>319</td>
<td>Hybrid Sculptural Forms: (Subtitled).</td>
<td>3 cr. U.</td>
<td>Introduction to concrete computing for artists, including robotics, interactive systems; basic programming, and soldering/assembly. Emphasis on production of object oriented art.</td>
</tr>
<tr>
<td>321</td>
<td>Design and Visual Communication I.</td>
<td>3 cr. U.</td>
<td>Basic forms and concepts for design and visual communication. Basic professional and academic concepts explored through studio assignments, lectures and readings.</td>
</tr>
<tr>
<td>322 (226)</td>
<td>Topics in Illustration: (Subtitled).</td>
<td>3 cr. U.</td>
<td>Application of design and media skills to illustration problems. Interrelation of image and typography in various graphic forms.</td>
</tr>
<tr>
<td>323 (328)</td>
<td>Typography II.</td>
<td>3 cr. U.</td>
<td>Continuation of Art 223; more advanced application of typography in categories of informational and publication design; emphasis on contemporary typographic concepts and designs.</td>
</tr>
<tr>
<td>324</td>
<td>Web Design.</td>
<td>3 cr. U.</td>
<td>Introduction to design for the Internet: information architecture, hypertextuality, creative and client-based sites, critical issues of Internet culture; fundamentals of markup languages, CSS, and software.</td>
</tr>
<tr>
<td>325</td>
<td>Multimedia Design.</td>
<td>3 cr. U.</td>
<td>Introduction to screen-based multimedia projects emphasizing interactive web design and interactive art projects.</td>
</tr>
<tr>
<td>325</td>
<td>Web Design II.</td>
<td>3 cr. U.</td>
<td>Exploration of responsive design using HTML, CSS and prototyping tools/frameworks; focus on design for usability across devices.</td>
</tr>
<tr>
<td>327</td>
<td>Digital Media Workshop: (Subtitled).</td>
<td>3 cr. U.</td>
<td>A concept oriented workshop in digital media.</td>
</tr>
<tr>
<td>332 (323)</td>
<td>Woven Structure I.</td>
<td>3 cr. U.</td>
<td>Contemporary concepts in weaving using various materials and loom techniques.</td>
</tr>
<tr>
<td>333 (333)</td>
<td>Pliable Materials/Sculptural Forms.</td>
<td>3 cr. U.</td>
<td>Contemporary concepts in fiber construction using various materials &amp; hand construction techniques.</td>
</tr>
<tr>
<td>336 (326)</td>
<td>Print, Paint and Dye on Fabric.</td>
<td>3 cr. U.</td>
<td>Batik, tie-die and direct application of dyes and pigments on textiles.</td>
</tr>
<tr>
<td>337 (327)</td>
<td>Screen Printing on Fabric.</td>
<td>3 cr. U.</td>
<td>Design and repeat pattern through the screen printing process on textiles. Use of dyes and pigments, stencil design and cloth construction.</td>
</tr>
<tr>
<td>342</td>
<td>Introduction to Figure Drawing.</td>
<td>3 cr. U.</td>
<td>Exploration of the figure through traditional and contemporary interpretations using a variety of drawing mediums.</td>
</tr>
</tbody>
</table>
343 Figure Painting. 3 cr. U. Traditional and contemporary approaches to figurative painting explored through art historical examples, expanded media/techniques and the development of personal direction.|Prereq: Art 342(P) & 243(P).

344 Watercolor. 3 cr. U. Painting in transparent watercolor. Introduction to basic principles and techniques.|Prereq: admis to Art and Design prog.

347 Reading Works of Art. 3 cr. U/G. An advanced course in the visual 'reading' of works of art from the artists' point of view. Course includes slide lecture, with discussion. Student presentation required.|Prereq: jr st or cons instr.

350 Color Photography. 3 cr. U. Aesthetic and technical challenges of color photography, concentrating on camera operation, film exposure and digital darkroom practice.|Jointly offered with Film 350. Prereq: grade B- or better in Art 253(251)(P) or Film 253(P), & admis to Art and Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.

350 (effective 01/25/2016) Visualizing Ideas in Photography. 3 cr. U. Critical theory and practices in photography, along with the aesthetic and technical challenges of digital photography and color capture, concentrating on camera operation, digital workflow practice and digital printing.|Prereq: Art 108(P), 118(P) or Film 117(P); & Art 253(P), 212(P), 221(P) or 291(P); & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.

352 Photographic Materials and Processes. 3 cr. U. Exploration of experimental methods and aesthetics from camera to print.|Jointly offered with & counts as repeat of Film 352. Prereq: grade of B- or better in Art 253(P) or Film 253(P), & admis to Art and Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.

358 (457) (effective 01/25/2016) Medium and Large Format Photography. 3 cr. U/G. Aesthetic and technical challenges of analog photography with medium and large format cameras, addressing image pre-visualization, image scale, contrast control, photographic developers, scanning, paper surfaces, and fine art printing.|Prereq: jr st & Art 253(P) or Film 117(P) & admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or Photo minors with Art 253(P); or grad st; or cons instr.

359 (effective 01/25/2016) Intermediate Photography Workshop: (Subtitled). 1-3 cr. U. Intermediate special topic workshop course in photography.|Retakable with a change of topic to 6 cr max. Prereq: soph st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.


364 Sculpture II. 3 cr. U. Continuation of Art 363.|Prereq: Art 363(P).

365 Foundry Techniques. 3 cr. U. Basic and advanced techniques using new and traditional moldmaking technologies. Fields trips to iron pours and conferences when possible.|May be retaken to 6 cr max. Prereq: admis to Art and Design prog & Art 261(P).

366 Between Painting and Sculpture. 3 cr. U/G. A studio laboratory consisting of a wide spectrum of techniques and ideologies, concentrating on the exploration of joining painting and sculpture as a consummate form.|Prereq: jr st; Art 261(P).


369 Sculpture Workshop: (Subtitled). 3 cr. U. A special topic workshop in sculpture.|May be retaken w/chg in topic
371 **Construction and Fabrication in Jewelry and Metalsmithing.** 3 cr. U. Exploration of construction and fabrication methods and expansion of the aesthetic, physical, functional and cultural vocabulary of specific metalsmithing techniques. Four hours studio monitoring mandatory. |Prereq: admis to Art and Design prog & Art 261(P).

372 **The Multiple in Jewelry and Metalsmithing.** 3 cr. U. Introduces formal and conceptual issues associated with multiples as an art making strategy, using traditional and experimental casting processes. Four hours studio monitoring mandatory. |Prereq: admis to Art and Design prog & Art 271(P).

378 **Industrial Processes and Fabrication.** 3 cr. U/G. Survey of fabrication methods with emphasis on manipulation of material through industrial processes. Four hours studio monitoring mandatory. |Prereq: jr st & admis to Art & Design prog or IAT prog; or grad st; or cons instr.

379 **Jewelry and Metalsmithing Workshop: (Subtitled).** 1-3 cr. U. Special topics workshop in jewelry and metalsmithing. |Retakable w/chg in topic to 6 cr max. Prereq: admis to Art and Design prog & Art 271(P).

381 **Throwing and Wheel Construction.** 3 cr. U. Introduction to the potter's wheel as a forming tool, including integration of hand built and wheel thrown forms, and basic glaze formulation. |Prereq: admis to Art and Design prog & Art 281(P).

382 **Building from the Figure in Clay.** 3 cr. U. Human form in clay through observation, drawing and modeling using a variety of ceramic construction methods. Individual conceptual and expressive approaches emphasized. |Prereq: Admis to Art and Design prog & Art 281(P); or cons instr.

383 **Molds and Multiples in Ceramics.** 3 cr. U. Moldmaking for ceramics focusing on plaster molds. Press molds and slip casting methods for replication of forms in series, and issues of multiplicity are addressed. |Prereq: admis to Art and Design prog & Art 281(P); or cons instr.

384 **Experimental Processes in Woodfiring I.** 3 cr. U. Contemporary approaches to the ancient process of woodfiring. Development of personal aesthetic using woodfire effects on functional and sculptural work. Technical research, firing participation required. |Prereq: admis to Art and Design prog & Art 281(P); or cons instr.

389 **Ceramics Workshop: (Subtitled).** 1-3 cr. U. A short term special topic workshop in ceramics. |Retakable w/chg in topic 6 cr max. Prereq: admis to Art and Design prog & Art 281(P); or cons instr.

391 (298) **(effective 09/02/2015) Intermediate Print & Narrative Forms: (Subtitled).** 3 cr. U. Continuation of Print and Narrative Forms with focused studio investigations in specialized print media and book arts techniques. |Retakable w/chg in topic to 6 cr max. Prereq: Admis to Art and Design prog & Art 291(P); or grad st; or cons instr.

391 (298) **Relief and Letterpress Printmaking.** 3 cr. U. Studio work in woodcut, linocut, letterpress and other relief processes exploring both black/white and color printing. |Prereq: Admis to Art and Design prog & Art 291(P); or grad st & cons instr.

392 **Lithography.** 3 cr. U/G. Studio work based on stone and plate lithography; lectures on history, multicolor printing, polyester plate and experimental techniques in lithography. |Prereq: Art 291(P); or grad st & cons instr.

393 (293) **Digital Printmaking.** 3 cr. U. A studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics. |Prereq: admis to Art and Design prog; & Art 291(P), 221(P), or 253(P); or admis to Inter-Arts/IAT; or cons instr.

394 **Intaglio.** 3 cr. U/G. Studio work in intaglio; drypoint engraving, etching, relief-intaglio; aquatint, experimental procedures, color printing, development of personal graphic concept. |Prereq: Art 291(P); or grad st & cons instr.
396 Photo Screenprinting. 3 cr. U/G. Screen-print process using the photo-stencil to reproduce hand-drawn and computer manipulated marks and images; printing skills, experimentation with materials and multiple reproduction. Prereq: Art 291(P), 253(P), 231(P), or 221(P); or grad st & cons instr.

397 Book Arts Workshop: (Subtitled). 3 cr. U/G. Studio work exploring traditional and experimental book structures. Media/content focus variable to include array of relevant topics. May be retaken to 6 cr max. Prereq: jr st; or grad st; or cons instr.

398 Photo Printmaking. 3 cr. U. Studio practice in the use of photo-sensitized plates, various printmaking processes (intaglio, lithography, relief) with emphasis on multiple plate color printing. Prereq: admis to Art and Design prog & Art 291(P) or 253(P).

402 Art and Design Workshop: (Subtitled). 1-3 cr. U/G. Special topic course in Art and Design. May be retaken with topic change to 6 cr max. Prereq: jr st & admis to Art and Design prog; or grad st; or cons instr.

405 Product Realization. 3 cr. U/G. This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process. 2.5 hrs lecture. Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Counts as repeat of Art 402/Ind Eng 590/MechEng 490 with same topic. Prereq: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.

406 Community Arts II. 3 cr. U/G. Intermediate study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals. Prereq: Art 306(P); or grad st; or cons instr.

411 Advanced Digital Art: (Subtitled). 3 cr. U/G. An advanced, concept oriented studio course where students produce interactive and/or generative art with their own custom software. Retakable with change of topic to 9 cr max. Prereq: jr st, admis to Visual Art prog or IAT prog, & Art 316; or grad st; or cons instr. See schedule of classes for any additional prereqs.

412 (411) (effective 01/25/2016) Advanced Digital Studio. 3 cr. U/G. An advanced, concept oriented studio course where students produce Digital Studio art. Prereq: jr st, admis to Art & Design prog or IAT prog, & Art 312(P); or grad st; or cons instr.

418 Advanced Electronics and Sculpture: (Subtitled). 3 cr. U/G. Advanced art production using interactive systems such as sensors, microcontrollers, motors, lights for interactivity installations & performance. Retakable with change of topic to 9 cr max. Prereq: jr st, admis to Art prog or IAT prog, & Art 318; or grad st; or cons instr. See schedule of classes for any additional prereqs.

421 Design and Visual Communication II. 3 cr. U. Intermediate level emphasizes a beginning professional synthesis of fundamentals of typography, symbol, image in comprehensive design projects. Prereq: grade of B- or better in Art 321(229)(P), 323(328)(P) & 3 cr min Graphic Design expanded studies (grade of C or better).

422 Design Methodologies: Process, Communication & Theory. 3 cr. U. Focus on creative process and communication; and entrepreneurial, professional and cross-disciplinary practices in design and related fields. Prereq: Art 321(P); or cons instr.

422 (effective 01/25/2016) Design Methodologies: Process, Communication & Theory. 3 cr. U. Focus on creative process and communication; and entrepreneurial, professional and cross-disciplinary practices in design and related fields. Prereq: Art 321(P) & successful completion of or exemption from a QL-A course; or cons instr.

423 Experimental Typography. 3 cr. U/G. Advanced understanding of typography, its use in innovative information systems, its historical context and function in various media including print, architectural applications, Web and multimedia. Prereq: jr st & B- or better in Art 323(328)(P); or grad st; or cons instr.
424 Topics in Web, Interaction and Screen Design: (Subtitled). 3 cr. U. Exploration of concepts and technologies in web, interaction and screen design. Topic and additional prerequisites will be published in Schedule of Classes; students must meet additional prereqs. Retakable w/topic chg to 9 cr max. Prereq: jr st; or cons instr.

426 Motion Graphics. 3 cr. U/G. Introduction to history and production of short-duration motion graphics (industry, Internet, titling, graphics, creative projects) using contemporary production tools (video editing, compositing, audio recording/sequencing). Prereq: jr st & Art 118(P); or grad st; or cons instr.


431 Special Topics in Fibers: (Subtitled). 3 cr. U/G. Advanced problem-solving working toward the development of cohesive body of work in non-loom construction. May be retaken w/chg in topic to 6 cr max. Prereq: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.

432 Woven Structure II. 3 cr. U/G. Continuation of ART 332. Further development of individual concepts in weaving leading to a cohesive body of work. Prereq: jr st, & Art 332(232)(P); or cons instr; or grad st.

433 Digital Imaging for Fabric. 3 cr. U/G. Digital processes and screen-printing on textiles with an emphasis on individual expression. Prereq: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.


435 Mixed Materials: Concept/Object. 3 cr. U/G. Individual research and execution of projects in various processes of non-loom fiber construction. Professional execution of work emphasized. Prereq: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.

436 Cloth Construction: Surface to Structure. 3 cr. U/G. Individual research and execution of projects in various processes of fabric printing and construction. Prereq: jr st, & Admis to Art and Design prog, & Art 231(P); or cons instr; or grad st.

438 Fiber Workshop: (Subtitled). 3 cr. U/G. A special topic course in fibers. May be retaken with topic change to 6 cr max. Prereq: See semester Schedule of Classes.


442 Figure Drawing Explorations. 3 cr. U. Focus on the human figure. Emphasis on personal interpretations in studio-based and outside assignments. Prereq: jr st, admis to Art and Design prog, & Art 342(P).

443 Painting Strategies. 3 cr. U. Emphasis on painting concepts, problem solving, research, construction strategies and development of personal direction. Prereq: jr st, admis to Art and Design prog & Art 343(P); or 243(P) & cons instr.

444 Watercolor. 3 cr. U. Continuation of Art 344. Greater emphasis on individual development and experimental use of the medium. Prereq: Art 344(P).


451 (351) Special Topics in Photography: (Subtitled). 3 cr. U. Specific topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered. Jointly offered with & counts as repeat of Film 451. Retakable with change in topic to 6 cr max. Prereq: grade of B- or better in Art 350(P) & 352(252)(P) or Film 350(P) & 352(P); or cons instr.


454 Narrative Photography. 3 cr. U. Investigation of narrative strategies as they relate to contemporary photography and its history. Jointly offered with & counts as repeat of Film 454. Prereq: grade of B- or better in Art 350(P) & 352(252)(P) or Film 350(P) & 352(P); or cons instr.

456 (455) Digital Imaging in Photography. 3 cr. U/G. Exploration of critical concepts through digital image processing and manipulation, including color correction, retouching, compositing, scanning and output. Jointly offered with & counts as repeat of Film 456. Prereq: jr st; grade of B- or better in Art 350(P) & 352(252)(P) or Film 350(P) & 352(P); or grad st; or cons instr.

457 (353) Photographic Techniques. 3 cr. U. Study of fine print production including image scale, contrast control, photographic developers, papers and surfaces. Jointly offered with & counts as repeat of Film 457(353). Prereq: grade of B- or better in Art 350(P) & 352(252)(P) or Film 350(P) & 352(P); or cons instr.

459 Photography Workshop: (Subtitled). 1-3 cr. U/G. A special topic course in photography. Jointly offered with & counts as repeat of Film 459. Retakable with change in topic to 6 cr max. Prereq: jr st; admis to Art and Design prog or Film prog or Inter-Arts/IAT prog; or grad st; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.

461 Structural Fabrication/Assembled Objects. 3 cr. U. Exploration of welding processes, wood-working techniques, and mixed media assemblage. Prereq: jr st, admis to Art and Design prog, & Art 261(P).

464 Contemporary Figure Sculpture. 3 cr. U. Exploration and investigation of the human figure from live models. Includes study of anatomy and historical references. Prereq: jr st, admis to Art and Design prog, & Art 261(P).


469 Sculpture Workshop: (Subtitled). 1-3 cr. U/G. A short term special topic workshop in sculpture. Specific topic and additional prerequisites may appear in the Timetable each semester. May be retaken with topic change to a 6 cr max. Prereq: jr standing or writ cons instr.

470 Metal Forming. 3 cr. U. Development of technical competency in metal forming and angle raising through traditional and experimental processes. Four hours studio monitoring mandatory. Prereq: admis to Art and Design prog & Art 271(P).

472 Color on Metal. 3 cr. U. Exploration of surface enrichment through vitreous enamel on metal and other traditional and experimental coloration techniques. Four hours studio monitoring mandatory. Prereq: admis to Art and Design prog & Art 271(P).

473 Special Topics in Jewelry and Metalsmithing: (Subtitled). 3 cr. U. Specific topic and additional prerequisites will appear in Schedule of Classes each time the course is offered. Four hours studio monitoring mandatory. Retakable w/chg in topic to 12 cr max. Prereq: admis to Art and Design prog & Art 271(P).

474 Portfolio Development in Jewelry and Metalsmithing. 3 cr. U/G. Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, visual documentation and portfolio
Presentation. Four hours studio monitoring mandatory. May be retaken to 12 cr max. Prereq: jr st & Admis to Art and Design prog; Art 371(P) or 372(P) or 378(P) or 470(P) or 472(P) or 473(P) or 478(P); or grad st & cons instr.

478 Digital Fabrication and Craft. 3 cr. U/G. Survey of fabrication methods with an emphasis on computer numeric controlled fabrication & exploration into digital fabrication & craft. Four hours studio monitoring mandatory. Prereq: jr st & Admis to Art & Design prog or IAT prog; Art 271(C), 277(C), 278(C), or 378(C); or grad st; or cons instr.

479 Jewelry and Metalsmithing Workshop: (Subtitled). 1-3 cr. U/G. Special topics workshop in jewelry and metalsmithing. May be retaken w/chg in topic to 6 cr. max. Prereq: jr st, & Admis to Art and Design prog, & Art 271(P); or grad st & cons instr.

481 Ceramics Special Topics and Portfolio I. 3 cr. U/G. Advanced problem-solving working toward the development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics. Prereq: jr st, & Admis to Art and Design prog, & Art 281(P); or cons instr; or grad st & cons instr.

482 Ceramics Special Topics and Portfolio II. 3 cr. U/G. Continuation of ART 481. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics. Prereq: jr st, & Art 481(P); or grad st & cons instr.

483 Ceramics Special Topics and Portfolio III. 3 cr. U/G. Continuation of ART 482. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics. Prereq: jr st & Art 482(P); or grad st.


493 Advanced Digital Printmaking. 3 cr. U/G. An advanced studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics. Prereq: jr st & Art 393(293)(P); or grad st; or cons instr.

495 (effective 09/02/2015) Advanced Printmaking: (Subtitled). 3 cr. U/G. Develop conceptual base of work and expand range of print skills with emphasis on color printing and combination print processes. Retakable to 6 cr max. Prereq: jr st & Art 392(P) or 393(293)(P) or 394(P) or 396(P) or 398(P); or grad st; or cons instr.

495 Advanced Printmaking: (Subtitled). 3 cr. U/G. Develop conceptual base of work and expand range of print skills with emphasis on color printing and combination print processes. Retakable to 9 cr max. Prereq: jr st & Art 392(P) or 393(293)(P) or 394(P) or 396(P) or 398(P); or grad st; or cons instr.

496 Sequence and Structure. 3 cr. U/G. Advanced studio course exploring the creation of sequential art and the development of visual narratives using experimental book structures as well as electronic media (web, multimedia). Prereq: jr st & Art 291(P) or 253(P); or 221(228)(P); or grad st & cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Studio and special problems designed to provide relevant course work for a study abroad program in the visual arts. May be retaken with change in topic to max of 12 cr. Prereq: jr st; acceptance in Study Abroad Prog.

499 Advanced Printmaking Workshop: (Subtitled). 3 cr. U/G. Special topic course in Print and Narrative Forms. May be retaken with topic change to 6 cr max. Prereq: jr st; or grad st; or cons instr. Add'l prereqs may appear in Schedule of Classes each time course is offered.

502 Undergraduate Classroom Assistantship in Art and Design. 3 cr. U. Student classroom experience as an assistant to the course instructor in a closely-monitored mentoring situation. May be retaken to 6 cr max. Prereq: jr st & cons instr.
505 BA Project. 1 cr. U. BA students collect, organize, synthesize & present capstone project in public event.|Credit/No Credit only. Prereq: sr st, Art 604(C).

507 Undergraduate Research Assistantship in Art and Design. 1-3 cr. U. An opportunity for juniors and seniors to work collaboratively with an Art and Design faculty member on a specific and sustained research project.|May be retaken to 6 cr max. Prereq: jr st & cons instr.

509 Art & Design Seminar: (Subtitled). 3 cr. U/G. Topics and critical issues in the modern and/or contemporary field of art. Student research and written/oral reports required.|Retakeable with change in topic to 6 cr max. Prereq: jr st or cons instr.

522 Topics in Advanced Illustration: (Subtitled). 3 cr. U. Advanced course exploring contemporary illustration: technologies for its creation, dissemination and viewing, its relationship to design and fine art practice. |Retakeable with topic change to 6 cr max. Prereq: jr st & Art 322(P); or cons instr.

524 Professional Practice in Design: (Subtitled). 3-6 cr. U/G. Preparation for the design profession through research, writing and portfolio development. Graduate level requires additional research.|May be retaken with topic change to 6 cr max. Prereq: jr st, & Art 323(C); or grad st; or cons instr.

526 Research in Universal Design and Fabrication. (Subtitled). 3 cr. U/G. Exploration of topics focused on Human Factors in Universal Design.|May be retaken for cr w/chg in topic to 6 cr max. Counts as repeat of Art 427 with similar topic. Prereq: jr st; Art 221(P), 378(P), or 478(P); or grad st.

528 Print Production and Presentation Techniques. 3 cr. U. Introduction to aspects of design production including scheduling, budgeting, pre-press, paper selection, printing, digital files, vendor communication; digital and hand-assembled mock-ups will be produced.|Prereq: Art 221(228)(P); or cons instr.

529 Design and Visual Communication III. 3 cr. U/G. Capstone course emphasizes a complete and comprehensive synthesis of design and visual communication through comprehensive studio projects developed for a graduate portfolio.|Prereq: jr st, & grade of B- or better in Art 421(329)(P) & 6 cr (final 3 may be taken conc) Design and Visual Communication Expanded Studies (grade of C or better); or grad st & cons instr.

531 Senior Project in Fibers. 3 cr. U. Further development of fiber investigations leading to a final project for BFA exhibition.|Retakable w/chg in topic to 6 cr max. Prereq: sr st & cons instr.

539 Fibers-Independent Study. 1-6 cr. U/G. Individual program of supervised study for the advanced student in fibers.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st; Admis to Art and Design prog; or grad st, & cons instr.

541 Advanced Drawing Strategies II. 3 cr. U/G. Continuation of Art 441. Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work on assigned and independently-conceived problems.|Prereq: jr st & Art 441(P); or grad st.

542 Advanced Figure Drawing Explorations. 3 cr. U/G. Continuation of Art 442. Advanced focus on the human figure. Emphasis on personal interpretations in studio-based and outside assignments.|Prereq: jr st; admis to Art and Design prog & Art 442(P); or grad st.

543 Painting Studio. 3 cr. U/G. Advanced investigation of painting focused upon personal image exploration through independently conceived problems.|May be retaken to 9 cr max. Prereq: jr st & Admis to Art and Design prog; Art 441(P), & 443(P); or grad st.
552 Studio Practice and Research in Photography. 3 cr. U/G. Research and development of a body of photographic work. Jointly offered with & counts as repeat of Film 552. Prereq: jr st; grade of B- or better in Art 454(P), 456(455)(P) & 457(353)(P); or Film 454(P), 456(P) & 457(353)(P); or grad st; or cons instr.

553 Senior Project in Photography. 3 cr. U. Further development of studio investigations leading to a final project for BFA Exhibition. Jointly offered with & counts as a repeat of Film 553. Prereq: sr st; grade of B- or better in Art 552(P) or Film 552(P); or grad st; or cons instr.

553 (effective 09/02/2015) Senior Project in Photography. 3 cr. U. Further development of studio investigations leading to a final project for BFA Exhibition. Prereq: sr st, grade of B- or better in Art 552(P); or cons instr.

561 Conceptual Process, Sculptural Presence. 3 cr. U/G. Development of advanced concepts in contemporary sculpture. May be retaken to 6 cr max. Prereq: jr st; Admis to Art and Design prog, & Art 261(P), & 363(P); or 365(P); or 461(P); or 464(P); or grad st.

562 Environmental Sculpture and Installation. 3 cr. U/G. Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance. May be retaken to 6 cr max. Prereq: jr st & Admis to Art and Design prog; Art 363(P) & 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.

567 Senior Project in Sculpture. 3 cr. U. Further development of independent sculpture investigations leading to a final project for BFA Exhibition. Prereq: sr st & Art 561(P); or 562(P); or cons instr.

575 Senior Project in Jewelry and Metalsmithing. 3 cr. U. Research and create a cohesive body of work based on technical, aesthetic and conceptual explorations for BFA Exhibition. May be retaken to 6 cr max. Prereq: sr st & Art 371(P), 474 (P); & four of the following: 372(C), 378 (C), 470(C), 472(C), 473(C), 478(C); or cons instr.

578 Research in Digital Fabrication and Craft: (Subtitled). 3 cr. U/G. Interdisciplinary research into digital fabrication, rapid prototyping and design. Retakable w/ change in topic to 6 cr max. Prereq: jr st; Art 378(C) or 478(C); or cons instr.

583 Senior Project in Ceramics. 3 cr. U. Further development of independent investigations in ceramics leading to a final project for BFA Exhibition. Prereq: sr st & Art 482(P); or cons instr.

584 Experimental Processes in Woodfiring II. 3 cr. U/G. Advanced research and further development of personal aesthetic in woodfiring. Leadership in supervising the firing process required. Prereq: jr st, & Art 384(P); or grad st & cons instr.

591 Portfolio in Print and Narrative Forms. 3 cr. U/G. Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, professional writing samples, visual documentation and portfolio presentation. May be retaken to 9 cr max. Prereq: jr st; cons instr.

591 (effective 09/02/2015) Portfolio in Print and Narrative Forms. 3 cr. U/G. Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, professional writing samples, visual documentation and portfolio presentation. Prereq: jr st; gr st; or cons instr.

595 Colloquium: Print and Narrative Forms. 3 cr. U/G. Imaging and hybrid forms in contemporary photographic, book arts, narrative forms and print work. Prereq: jr st; or grad st; or cons instr.

595 (effective 09/02/2015) Colloquium: Print and Narrative Forms. 3 cr. U/G. Imaging and hybrid forms in contemporary photographic, book arts, narrative forms and print work. Retakable up to 6 cr. Prereq: jr st; or grad st; or cons instr.

597 Senior Project in Print and Narrative Forms. 3 cr. U. Further development of studio investigations leading to a final project for BFA Exhibition. Prereq: sr st & cons instr.
603 Advanced Studio Practice. 1-3 cr. U/G. A special course open only to seniors and graduate students with written cons instr.|May be retaken to max of 3 cr. Prereq: sr st; writ cons instr.

604 Professional Practices. 3 cr. U. Preparation for graduating seniors with skills needed for a career in the competitive field of art: resumes, grants, budgets, taxes.|Prereq: sr st, or cons instr.

604 (effective 09/02/2015) Professional Practices. 3 cr. U. Preparation for graduating seniors with skills needed for a career in the competitive field of art: resumes, grants, budgets, taxes.|Prereq: sr st; & successful completion of, or exemption from, a QL-A course, or cons instr.

605 BFA Exhibition. 1 cr. U. Independent supervised preparation and exhibition in Art & Design to fulfill BFA degree requirements.|Prereq: sr st, enrol conc in an advanced studio course; or cons instr.

606 BFA Exhibition in Design. 1 cr. U. Supervised preparation and exhibition in conjunction with ART 529 Graphic Design III to fulfill degree requirements.|Prereq: Art 421(P) & 529(C).

608 Art and Design Internship. 3-6 cr. U/G. Provides structured opportunities for art students to earn credit for skills and professional experience gained working in galleries, museums, studios, arts organizations or art businesses.|Prereq: jr st & admis to Art and Design prog; or grad st & cons instr.

609 Independent Reading and Research. 1-3 cr. U/G. |May be retaken with change in topic to max of 9 cr. Prereq: sr st & writ cons instr.

612 (618) (effective 09/02/2015) Senior Project in Digital Studio Practice. 3 cr. U. Further development of independent investigation in Digital Media, leading to a final project for BFA Exhibition.|Prereq: sr st & cons instr.

618 (527) Senior Project in Digital Studio Practice. 3 cr. U. Further development of independent investigation in Digital Media, leading to a final project for BFA Exhibition.|Prereq: sr st & cons instr.

621 The Design Group. 3 cr. U. Development of advanced understanding of visual, theoretical, historical, professional and technical aspects of design practice through work with client(s).|May be retaken to 6 cr max. Prereq: cons instr.

627 Design Seminar: (Subtitled). 3 cr. U/G. Role and responsibility of professional designer investigated. Topics may include contemporary trends and issues, design education, ethics, social activism, career opportunities.|Prereq: jr st; or grad st; or cons instr.

629 Graduate Graphic Design I. 3 cr. U/G. Individual research in graphic design.|Prereq: Art 529(P) or cons instr.

643 Senior Project in Painting. 3 cr. U. Further development of independent painting investigations leading to a final project for BFA Exhibition.|Prereq: sr st & Art 543(P); or cons instr.

645 Painting and Drawing Critique. 3 cr. U/G. An advanced critique format course to investigate painting and drawing mediums. Students will develop and discuss conceptual, technical, and collective dialogue strategies.|Prereq: sr st or writ cons instr.

This course information produced at 01:00 on 07/30/2015.
130 Multicultural Art and Visual Learning in Elementary Education. 3 cr. U. A study of art and its relationship to human development. Designed for teachers interested in providing developmentally appropriate art experiences for children from pre-school through 6th grade. Lectures, discussions, readings, and lab activities will emphasize the use of art materials, equipment, and visual aids. Not open for degree cr to Art & Art Ed majors. Prereq: none.

227 Introduction to Art Education. 3 cr. U. Early introduction to the field of art education, afford students opportunity to observe in schools, and provide Art Ed faculty opportunity to connect with students earlier in program. Prereq: soph st; admis to Art and Design prog.

228 Learning Processes in Art Education. 3 cr. U. Introduction to theories of visual learning, art criticism centered on contemporary artists, academic language for teaching in K-12 settings. Exploration of portable technologies in teaching-learning. Prereq: soph st; admis to Art and Design prog.


327 Art Education Theory and Practice: Elementary. 6 cr. U. Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of observations in elementary school required. Counts as repeat of Art Ed 225, 250, & 375. Prereq: jr st, admis to Art Ed prog, & cons instr.


328 Art Education Theory and Practice: Secondary. 6 cr. U. Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of

425 Student Teaching in Art I - Elementary Levels. 5 cr. U. Pre-professional teaching internship in preschool/kindergarten through sixth grade. Prereq: sr st & Art Ed majors or Art Cert students only, dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 426(C), & cons instr.

426 Student Teaching in Art II: Secondary Levels. 5 cr. U. Pre-professional teaching internship in grades seven through twelve. Prereq: sr st & Art Ed majors or Art Cert students only; dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 425(C), & cons instr.

489 Art Education Workshop: (Subtitled). 1-3 cr. U/G. A short-term, concept-oriented workshop in the visual and tactile arts with special focus on current issues of particular interest to the professional art educator. May be repeated with change in content to max of 6 cr. Prereq: jr st & cons instr.

550 Computer Applications for Art Education. 3 cr. U/G. Use of computer and other electronic media technology in developing and presenting visual-based instructional material, managing records, and using database and visual retrieval systems for a wide range of subject matter. Prereq: Art Ed 225(P), admis into Art Ed prog; cons instr.

699 Independent Reading and Research. 1-4 cr. U. May be retaken for cr. Prereq: sr st & writ cons instr.

This course information produced at 01:00 on 07/30/2015.
A. Art History Intro Survey Courses

101 Ancient and Medieval Art and Architecture. 3 cr. U. The great originitive styles of Egypt, Greece, Rome, and the Christian West in architecture, sculpture, and painting. [Prereq: none.]

102 Renaissance to Modern Art and Architecture. 3 cr. U. Representative masters in the historical development of European painting, sculpture, and architecture from the fifteenth century to the present. [Prereq: none.]

103 History of Architecture. 3 cr. U. Architecture from Stonehenge to the present, examining the nature of the art, major styles and significant architects, and relation to society, technology, and the environment. [Prereq: none.]

104 African, New World and Oceanic Art and Architecture. 3 cr. U. Major art forms in oceanic, pre-Columbian, American Indian, and African art; their functions and meanings. [Prereq: none.]

105 Asian Art and Architecture. 3 cr. U. Functions and meanings of major art forms in the art of Asia, including India, China, Japan, and Southeast Asia. [Prereq: none.]

111 Entertainment Arts: Film, Television, and the Internet. 3 cr. U. History of film, television, and the Internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form. [ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another. Prereq: none.]

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. [Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.]

B. Art History Ancient Art

312 Minoan and Mycenaean Art and Archaeology. 3 cr. U/G. Architecture, sculpture, and painting in the Aegean during the Bronze Age, with emphasis on recent archaeological discoveries. [Prereq: jr st.]
313 Greek Art and Archaeology. 3 cr. U/G. Major developments in Greek art from Archaic times through the Hellenistic period. Emphasis on architecture, sculpture, and painting of the Archaic and Classical periods. Prereq: jr st.

314 (effective 09/02/2015) Art and Archaeology of the Ancient Near East. 3 cr. U/G. Ur, Gilgamesh, Mesopotamia; the art and archaeology of the first cities in the ancient Near East from the Neolithic to Alexander the Great's conquest. Counts as repeat of ArtHist 499 w/same topic. Prereq: jr st; ArtHist 101(P).


316 Roman Art and Archaeology. 3 cr. U/G. Major developments in the evolution of Roman architecture, sculpture and painting from Republican through late Imperial times. Prereq: jr st.

412 Cities and Sanctuaries of Ancient Greece. 3 cr. U/G. Development of Greek urban and religious architecture from Archaic through Hellenistic times. The growth of such centers as Athens, Delphi, Olympia, Paestum, Priene, and Pergamon. Prereq: jr st.

413 Greek Sculpture. 3 cr. U/G. Development of sculpture from the Geometric Period through the Hellenistic age. All forms of sculpture considered, not just freestanding works. Prereq: jr st.

424 The Dome: Form, Function, and Meaning. 3 cr. U/G. Formal, technical, and historical meanings of the dome from antiquity to the Middle Ages in monuments such as the Pantheon, Hagia Sophia, and Blue Mosque. Prereq: jr st or cons instr.

C. Art History Medieval Art

220 The Beginning of Medieval Art. 3 cr. U. Introduces key principles of artistic production in the late Roman, early Christian, Byzantine, and Medieval periods, c. 150-800 CE, including the style, the role of the Bible in medieval image theory, iconography, and typology. Prereq: none.

320 Medieval Art and Architecture. 3 cr. U/G. Major monuments of medieval art and architecture from the fourth to the fourteenth century in France, Spain, the British Isles, Italy and the Mediterranean. Prereq: jr st.

324 Art and Architecture of Byzantium. 3 cr. U/G. Art and architecture of Constantinople and vicinity from the fourth to the fifteenth century. Prereq: jr st or cons instr.

325 Early Medieval Art in the West. 3 cr. U/G. Architecture, sculpture, metalwork and manuscript illumination from c.500-c.1050 A.D. in Ireland, Britain, France, Spain, Germany, Scandinavia and Northern Italy. Prereq: jr st; ArtHist 101(R).

325 (effective 09/02/2015) Early Medieval Art in the West. 3 cr. U/G. Architecture, sculpture, metalwork, and manuscript illumination from c.500-c.1050 C.E. in Ireland, Britain, France, Spain, Germany, Scandinavia, and Northern Italy. Prereq: jr st; ArtHist 101(R).

326 Heretics and Iconoclasts: The Art and Architecture of the Christian East. 3 cr. U/G. The artistic and visual traditions of Christian cultures to the east of the Mediterranean, including Syria, Cappadocia, Armenia, and Georgia, from late antiquity to c. 1500. Prereq: jr st.
329 Art and Architecture of the Late Middle Ages. 3 cr. U/G. Church architecture, manuscript illumination, and architectural and figural sculpture from the Gothic era to the rise of the Renaissance. Prereq: jr st or cons instr.

426 French Gothic Art and Architecture C.1130-C.1300. 3 cr. U/G. Gothic art and architecture from its origins in the Ile-de-France through the High Gothic cathedrals to the European-wide diffusion of the Rayonnant style. Prereq: jr st; ArtHist 101(R) or 220(R).

435 Art and Architecture Along the Western Silk Road. 3 cr. U/G. Artistic exchange between Europe, Byzantium, Asia Minor, the Caucasus, and the Islamic world during the Middle Ages through the textile trade. Prereq: jr st or cons instr.

D. Art History Renaissance & Baroque Art

237 Northern Renaissance Art. 3 cr. U. Painting, graphics, and sculpture, 1364-1569; their influence on great 15th- and 16th-century styles. Main French, Dutch, and German artistic developments in historical context. Prereq: soph st.

241 Introduction to Baroque Art. 3 cr. U. Representative masters of the 17th century, including Caravaggio, Rubens, Rembrandt, Bernini, Velazquez, and Poussin. Prereq: soph st.

255 Survey of Italian Renaissance Painting and Sculpture. 3 cr. U. Overview of Italian Renaissance art, tracing its origins with the painter Giotto in the fourteenth century to its culmination in Michelangelo's sixteenth-century masterpieces. Prereq: none

260 Spanish Visual Art and Culture: 1450-1830. 3 cr. U. Masterpieces by Spanish artists, including El Greco, Velazquez, and Goya; the social and intellectual forces at play in their works. Prereq: soph st.

333 High Renaissance Art in Italy. 3 cr. U/G. The formation of the great style discussed in terms of the attainments of representative artists such as Leonardo da Vinci, Michelangelo, Raphael, and Titian. Prereq: jr st.

341 Seventeenth-Century Art in Holland and Flanders. 3 cr. U/G. The development of art in Flanders and Holland during the seventeenth century, examining the works of artists Rubens, Van Dyck, Rembrandt, Hals, and Vermeer. Prereq: jr st.

342 Art and Civic Culture in Fifteenth-Century Florence. 3 cr. U/G. Masterpieces by artists including Donatello, Piero della Francesca, and Botticelli in concert with Florentine civic discourse on politics, religion, and gender. Prereq: jr st.


431 Renaissance Architecture in Italy. 3 cr. U. Florentine and other Italian architecture in the fifteenth and sixteenth centuries; such artists as Brunelleschi, Alberti, Bramante, Leonardo da Vinci, Michelangelo, and Palladio. Prereq: jr st.


447 Topics in Early Modern Art: (Subtitled). 3 cr. U/G. Key themes, genres, and artists in European art from the fourteenth through the seventeenth centuries. Themes may include gender, politics, and religion. Retakable w/chg in topic to 9 cr max. Prereq: jr st.
E. Art History Eighteenth Century to Present


360 Modern Architecture II: The Rise of Modern Architecture. 3 cr. U/G. Emphasizing the work of the major modern architect, the course traces the evolution of architecture from the beginnings of Modernism to the present time.|Prereq: jr st.

361 Modern Architecture III: Contemporary Architecture. 3 cr. U/G. The intellectual, visual, and social evolution of architecture since the early 1960's.|Prereq: jr st; ArtHist 360(P) or cons instr.


365 History of Photography. 3 cr. U/G. A survey of photography from its inception in 1826 to the present. Topics include stylistic and technological evolution, cultural impact, and aesthetic considerations of photography.|Prereq: jr st; ArtHist 102(R) or 357(R).

366 German Painting, 1800-1933. 3 cr. U/G. Major German painters from Runge to Beckmann. Romantic art theory, landscape, Expressionism, and 'Neue Sachlichkeit.'|Prereq: jr st.


368 History of Modern Design. 3 cr. U/G. An investigation of the craft or decorative arts-specially furniture, ceramics, glass, metalwork, and textiles-from the Great Exhibition of 1851 to the present.|Prereq: jr st.

369 Post-1970s Art. 3 cr. U/G. Legacies of Minimalism and Conceptual Art on global contemporary art movements such as site-specific art, earth and land art, institutional critique, body and performance art.|Counts as repeat of ArtHist 470 w/same topic. Prereq: jr st.

463 Cubism and its Inheritance. 3 cr. U/G. The development of Cubism by Picasso and Braque and its progeny in Paris, in futuristic Italy, and in constructivist Russia. [Prereq: jr st.]

464 European Art, 1890-1910. 3 cr. U/G. European art in a pivotal period in the history of modern painting, architecture, and sculpture; post-impressionism, symbolism, art nouveau, fauvism, expressionism, and cubism. [Prereq: jr st.]

465 Dada and Surrealist Art. 3 cr. U/G. Two major twentieth-century art movements; their sources, major proponents, and later influence; Duchamp, De Chirico, Ernst, Giacometti, Picasso, Miro, Magritte, Dali. [Prereq: jr st.]

471 Topics in Contemporary Art: (Subtitled). 3 cr. U. Art from the 1960s to the present. [Retakable w/chg in topic to 6 cr max. Prereq: jr st.]

472 History and Theory of New Media Art. 3 cr. U/G. The history and critical theory of new media artworks, focusing on artists who utilize interactive technologies. [Prereq: jr st.]


F. Art History American Art

250 Introduction to American Art. 3 cr. U. Traces major artists, styles, themes, and issues in American painting, sculpture, and photography from colonial through contemporary periods. [Prereq: soph st.]

353 American Art: Colonial Period - 1870. 3 cr. U/G. Architecture, painting, sculpture, and decorative arts of colonial America through the civil war period with emphasis on their aesthetic and social contexts. [Prereq: jr st.]

354 American Art: 1870 - Present. 3 cr. U/G. Painting, sculpture, and the decorative arts from 1870 to the present with emphasis on their aesthetic and social contexts. [Prereq: jr st.]

355 American Folk Art. 3 cr. U/G. Survey of American folk art from colonization to the present. Emphasis on major styles and themes, regional developments, and relationship to the fine arts. [Prereq: jr st.]

459 American Architecture. 3 cr. U/G. Architecture in the United States from its beginnings in the 17th century to its absorption into international Modernism at the time of World War II. [Prereq: jr st & ArtHist 103(P) or 102(P) or cons instr.]

462 Frank Lloyd Wright. 3 cr. U/G. The work of America's and Wisconsin's best-known architect presented in its historical, cultural and philosophical contexts. [Prereq: jr st & one of the following courses recom: ArtHist 102(R), 359(R), 360(R), 459(R).]


469 American Master Painters: (Subtitled). 3 cr. U/G. Course focuses on three painters from one of five periods: West, Copley, Peale; Allston, Cole, Mount; Homer, Eakins, Ryder; Hopper, Davis, O'Keefe; Pollock, Warhol, Rauschenberg. Specific topic and any additional prerequisites will be announced in the Timetable each time the course is offered. [Retakable w/chg in topic to 6 cr max. Prereq: jr st.]

470 Topics in American Art: (Subtitled). 3 cr. U/G. In-depth examination of important themes, genres, or
G. Art History Non-Western Art

251 Introduction to the Art and Architecture of Latin America. 3 cr. U. Art and architecture of Latin America from 1492 to the mid-twentieth century. Prereq: none.

270 Pre-Columbian Art, Myth, and Legacy. 3 cr. U. The conquest of the Americas and the art of three Pre-Columbian civilizations: the Aztec, Maya, and Inca. Prereq: none.

281 Modern and Contemporary Chinese Art. 3 cr. U. Comprehensive survey of modern and contemporary Chinese art history. Prereq: none.

327 Art and Architecture of Islamic Spain. 3 cr. U/G. Visual arts of the peoples that lived in Al-Andalus (the Arabic name for Muslim Spain) from the 8th to the 15th centuries. Prereq: jr st or cons instr.

371 African Art. 3 cr. U/G. Art of the indigenous peoples of different sections of Africa, with consideration of both aesthetic qualities and the social context of the art. Prereq: jr st.

372 Art of the Inca and their Ancestors. 3 cr. U/G. Native arts of South America before European contact; emphasis on artistic developments in the Andean region. Prereq: jr st.

373 Art of Ancient Mexico and Central America. 3 cr. U/G. Arts of ancient Mexico and Central America; emphasis on the Olmec, the Maya, and the Aztecs. Prereq: jr st.

375 Art of the Aztec Empire. 3 cr. U/G. Comprehensive introduction to the art of the Aztec Empire, including architecture, monumental sculpture, small-scale sculpture, ceramics, painting, lapidary work, goldwork, and featherwork. Counts as repeat of ArtHist 499 with same subtitle. Prereq: jr st.

382 Chinese Art and Architecture. 3 cr. U/G. Chinese bronzes, jades, painting, sculpture, and architecture from the Neolithic (5000 B.C.) to the modern period, including Buddhist, Daoist, Confucianist, and Communist art. Prereq: jr st.

382 (effective 09/02/2015) Chinese Art and Architecture. 3 cr. U/G. Chinese bronzes, jades, painting, sculpture, and architecture from the Neolithic (5000 B.C.E.) to the modern period, including Buddhist, Daoist, Confucianist, and Communist art. Prereq: jr st.


384 Art and Archaeology of the Chinese Bronze Age. 3 cr. U/G. In-depth study of ritual bronzes and other crafts created for nobles and commoners of the Bronze Age, with emphasis on recent archaeological discoveries. Prereq: jr st.

386 Art, Ritual, and Ethnicity of China. 3 cr. U/G. In-depth introduction to the ethnic arts and religions of China; architecture, painting, film, and religious ceremonies of Daoism, Buddhism, and Dongba. Prereq: jr st or cons instr.

474 Maya Art. 3 cr. U/G. Ancient Maya art, with emphasis on the Classic Period florescence, its development, and major themes. Prereq: jr st.

480 (effective 09/02/2015) Chinese Painting. 3 cr. U/G. Formation and development of Roman architecture from its Greek and Italic elements through the decline of the civilization in the fourth century C.E. Prereq: jr st.
### 480 Chinese Painting. 3 cr. U/G. Major developments in Chinese painting from 6 B.C. to the modern period, including landscapes, figures, flowers-and-birds, and calligraphy. | Prereq: jr st.

### 481 Topics in Chinese Art: (Subtitled). 1-3 cr. U/G. In-depth examination of important themes, genres, or subgroups in the evolution of Chinese art. | Retakable w/chg in topic to 6 cr max. Prereq: jr st.

### 482 Topics in Non-Western Art: (Subtitled). 3 cr. U/G. In-depth examination of major themes, genres, or regional sub-groups within the field of non-western art. | Retakable w/chg in topic to 6 cr max. Prereq: jr st.

### H. Art History Film Art

#### 205 History of Film I: Development of an Art. 3 cr. U. The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists. | ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another. Prereq: none.

#### 206 History of Film II: Development of an Art. 3 cr. U. The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists. | ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another. Prereq: none.

#### 307 Film Directors: (Subtitled). 3 cr. U/G. Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work. | Retakable w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another. Prereq: jr st; ArtHist 205(R) or 305(R).

#### 308 Film Styles: (Subtitled). 3 cr. U/G. A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios. | Retakable w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another. Prereq: jr st.

### I. Art History General Art

#### 289 Internship in Art History, Lower Division. 1-6 cr. U. Application of basic principles of art history in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in ArtHist; 2.25 gpa; cons supervising faculty member.

#### 297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

#### 299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

#### 381 Honors Seminar: (Subtitled). 3H cr. U. Specific topics vary. | Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

**489 Internship in Art History, Upper Division. 1-6 cr. U.** Application of advanced principles of art history in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in ArtHist; 2.25 gpa; cons supervising faculty member.

**497 Study Abroad: (Subtitled). 1-12 cr. U/G.** Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

**499 Ad Hoc: (Subtitled). 1-6 cr. U.** Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

**501 Seminar in Art History. 3 cr. U.** An undergraduate research seminar in various aspects of the history of art, with papers presented by students. Satisfies L&S research req. Not retakable for cr. Prereq: jr st; declared Art History major; cons instr.

**501 (effective 09/02/2015) Colloquium in Method and Theory: (Subtitled). 3 cr. U.** An undergraduate research seminar in various aspects of the history of art, with papers presented by students. Satisfies L&S research req. Not retakable for cr. Prereq: jr st; declared Art History major; cons instr.

**691 Art Museum Internship. 3 cr. U.** Supervised practical experience in local art museums arranged on individual basis. Introduction to curatorial and/or administrative duties; 'hands on' treatment of works of art. Retakable for 3 additional cr. Prereq: jr st; at least 6 cr ArtHist at the 300 level or above & cons internship coord.

**699 Independent Study. 1-3 cr. U.** Advanced independent work under the supervision of an ArtHist faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept chair. Retakable w/chg in topic to 6 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.

*This course information produced at 01:00 on 07/30/2015.*
ASTRON Astronomy

103 Survey of Astronomy. 3 cr. U. History of astronomy; planets; stellar evolution, nucleosynthesis; death of stars: white dwarfs, neutron stars, black holes; galaxies and quasars; expansion of the universe, dark matter; the big bang.|Prereq: math placement level D.

104 Astronomy Laboratory. 1 cr. U. Observations of planets, stars, stellar clusters, and galaxies; related experiments. Correlated with Astron 103; can be taken with Astron 300.|Prereq: Astron 103(C) or 300(C).

185 Astronomy for Pre-Education Majors. 3 cr. U. Space: how we know and what we know; the solar system, stars, galaxies, and the universe. 2 hrs lec, lab.|Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

211 Principles of Astronomy. 3 cr. U. Light and matter; planets; stellar evolution, nucleosynthesis; death of stars; white dwarfs, neutron stars, black holes; galaxies, quasars; expansion of universe, dark matter; big bang.|Prereq: Physics 120(P) or 209(P) or cons instr.

289 Internship in Astronomy, Lower Division. 1-6 cr. U. Application of basic principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in astron; 2.25 gpa; cons supervising faculty member.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic.|Prereq: none; add'l prereqs may be assigned to specific topic.

400 (300) Astrophysics I. 3 cr. U. Introductory astrophysics for students with junior-/senior-level background in mathematics and physics. Light and matter; stars and the sun; extrasolar planets; compact objects.|Prereq: Astron 103(P) or 211(P) or cons instr; Physics 309(P); Physics 317(R) recom.
401 (320) Astrophysics II. 3 cr. U. Continuation of Astron 400; for students with junior-/senior-level background in mathematics and physics. The Milky Way Galaxy; galactic evolution; structure of the Universe; cosmology. Prereq: Astron 400(300)(P).

489 Internship in Astronomy, Upper Division. 1-6 cr. U. Application of advanced principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in astron; 2.25 gpa; cons supervising faculty member.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

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College of Letters and Science

ATM SCI Atmospheric Sciences

100 Survey of Meteorology. 3 cr. U. Introduction to the composition, structure, energetics, and general circulation of the atmosphere. Analysis of weather systems. 2 hrs lec, 2 hrs lab-dis.|Counts as repeat of 3 cr Atm Sci 100 taken for 4 cr. Prereq: none.

100 (effective 09/02/2015) Survey of Meteorology. 3 cr. U. Concepts and principles of meteorology; cyclones, fronts, thunderstorms, tornadoes, air pollution, and climate. Interpretation of weather maps, charts, and forecasts. 2 hrs lec, 2 hrs lab-dis.|Counts as repeat of 3 cr Atm Sci 100 taken for 4 cr. Prereq: none.

106 Principles and Forecasting of the Weather. 3 cr. U. What makes the weather, general circulation of the atmosphere, analysis of meteorological data and their use in predicting the weather.|Prereq: none.

108 Rain and Snow. 3 cr. U. Study of precipitation properties and processes in the atmosphere. Structure of precipitating systems ranging from small to large scale.|Prereq: none.

109 Thunderstorms, Tornadoes and Hurricanes. 3 cr. U. The study of basic processes that lead to dry and moist convection. Characteristic atmospheric structure and cloud microphysical processes that produce thunderstorms, tornadoes and hurricanes.|Prereq: none.

110 The Origin, Composition, and Structure of the Planetary Atmospheres. 3 cr. U. Origin of the solar system, its planets, and planetary atmospheres.|Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

240 Introduction to Meteorology. 3 cr. U. Quantitative approach to understanding fundamental concepts in meteorology. Radiation, heat balance of the atmosphere, thermodynamics, horizontal motion, general circulation, atmospheric observations, clouds, weather map analysis.|Not open for cr to students with Atm Sci 201. Prereq: Physics 209(P) & 214(P); Math 232(C).
289 Internship in Atmospheric Sciences, Lower Division. 1-6 cr. U. Application of basic knowledge of Atmospheric Sciences in business, organizational, educational, political or other appropriate setting.|Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

330 Air-Pollution Meteorology. 3 cr. U/G. Pollutant sources and sinks, fundamental pollutant chemistry, monitoring techniques, averaging boundary layers and turbulence, diffusion theories, diffusion models, regional and global-scale pollution problems.|Prereq: Atm Sci 240(P); Chem 102(P); stats course recom.

350 Atmospheric Thermodynamics. 3 cr. U/G. Radiant energy, sensible heat, and atmospheric thermodynamics; the gas laws; hydrostatic and psychrometric equations; dry and moist convection; clouds and their physical and energy relations. Optional field exercise.|Prereq: jr st; Physics 210(P); Math 232(P); Atm Sci 240(P).

351 Dynamic Meteorology I. 3 cr. U/G. The role of dynamics in atmospheric physics; equations of motion; symmetric circulation models; gravity waves; Rossby waves, quasi-geostrophy; introduction to instability of atmospheric flows.|Prereq: jr st; Atm Sci 240(P); Math 233(P).

352 Dynamic Meteorology II. 3 cr. U/G. Circulation, vorticity, potential vorticity; shallow water equations: Poincare, Kelvin, and Rossby waves, energy and enstrophy; quasi-geostrophy for a stratified atmosphere; barotropic and baroclinic instability.|Prereq: jr st; Atm Sci 351(P); Math 234(P).

360 Synoptic Meteorology I. 4 cr. U/G. Fundamental principles; synoptic-scale structure and dynamics; equivalent barotropic model; vertical motions; introduction to and application of quasi-geostrophic theory.|Prereq: jr st; Math 232(P); Physics 210(P); Atm Sci 240(P).

361 Synoptic Meteorology II. 4 cr. U/G. Extension of quasi-geostrophic theory to Q-vectors; isentropic potential vorticity applied to mid-latitude weather systems; fronts and jets.|Prereq: jr st; Atm Sci 360(P).

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics.|Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

405 Atmospheric Science for in-Service Teachers: 1-3 cr. U/G. Basic, advanced or new topics in atmospheric sciences for in-service teachers.|Retakable w/chg in topic to 9 cr max. Prereq: in-service teacher; add'l prereqs depending on topic.

460 Mesoscale Circulations. 3 cr. U/G. Theory, analysis and forecasting of mesoscale flows, including convective systems, polar lows, terrain and surface-forced flows, jet streams and hurricanes.|Prereq: jr st; Atm Sci 360(R) or cons instr.

464 Cloud Physics. 3 cr. U/G. Formation of cloud droplets, droplet growth by condensation, formation of ice crystals, precipitation processes, weather radars, cloud models.|Prereq: jr st; Physics 210(P); Math 232(P); Atm Sci 350(P).

480 The General Circulation and Climate Dynamics. 3 cr. U/G. Historical overview, the zonally symmetric circulation, momentum, heat and water budgets, stationary waves, the El Nino Southern oscillation, global warming, interpentadal variability in the North Atlantic. Prereq: jr st; Atm Sci 351(P).

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Statistical Methods in Atmospheric Sciences. 3 cr. U/G. Mathematical and statistical tools applicable to the investigation of atmospheric problems; the nature and treatment of atmospheric data. Prereq: jr st; Atm Sci 240(P) or 350(P), & Math 231(P), 232(P) or cons instr.

505 Micrometeorology. 3 cr. U/G. Surface energy budget; radiation balance and heat transfer; boundary-layer profiles of wind, temperature and moisture; turbulence and boundary-layer fluxes; evapotranspiration; special topics. Prereq: jr st; Atm Sci 351(P) & 330(P).


599 Capstone Experience. 1 cr. U. Student writes a paper under supervision of an advisor on an approved topic not covered in the student's regular course work. Prereq: sr st; writ cons instr & dept chair.


695 Internship in Atmospheric Sciences, Upper Division. 1-6 cr. U. Application of advanced principles of atmospheric sciences in a business, organizational, educational, political or other appropriate setting. One cr earned for 40 hrs work. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in atm sci; 3.0 gpa in the major; cons supervising faculty.

699 Advanced Independent Reading. 1-3 cr. U. Independent meteorological study. Retakable w/chg in topic to 3 cr max. Prereq: jr st, 2.5 gpa, & writ cons instr, dept chair, & asst dean for SAS.

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100 Survey of Zoology. 3 cr. U. Survey of the animal kingdom, with emphasis on the importance of animals to humans. Study of phyla as represented by types, classification, structure, and life histories. Introduction to cytology, genetics, evolution, and ornithology. 2 hrs lec, 2 hrs lab.|Does not carry cr toward bio sci major. Prereq: none.

101 General Survey of Microbiology. 4 cr. U. The nature and activities of microorganisms, including surveys of bacteria, fungi, viruses, immunology, and disease applications. 3 hrs lec, 3 hrs lab.|Intended primarily for nursing students. Does not carry cr toward bio sci major. Prereq: Chem 101(P) or 102(P).

102 Elements of Biology. 3 cr. U. Organization and function of living systems. 2 hrs lec, 2 hrs lab.|Intended for non-majors; does not carry cr toward bio sci major. Prereq: none.

103 Topics in Modern Biology: (Subtitled). 3 cr. U. How biological factors, processes, and reactions affect living systems. Emphasis on current issues in biology such as genetic engineering, bioethics, and population concerns.|Intended for non-majors; does not carry cr toward bio sci major. Retakable w/chg in topic to 9 cr max. Students w/cr in Bio Sci 226 or 250 may not take 103 w/those topics. Prereq: none, except as may be required for specific topics.

104 Plants in Today's World. 3 cr. U. Introduction to major plant groups; principles of structure and function, ecology, and gardening. 2 hrs lec, 2 hrs lab.|Prereq: none.

150 (effective 09/02/2015) Foundations of Biological Sciences I. 4 cr. U. Fundamental principles of biology (ecology, evolution, genetics, molecular and cell biology) integrated through evolutionary framework. First of two-course sequence for bio sci, other science majors. 3 hrs lec, 3 hrs lab. Open to freshmen.|Prereq: Chem 100(P) or 102(P) or conc reg.

150 Foundations of Biological Sciences I. 4 cr. U. Fundamental principles of biology, including ecology, evolution, genetics, molecular and cell biology integrated through an evolutionary framework. First of a two-course sequence for bio sci and other natural science majors. 3 hrs lec, 3 hrs lab.|Prereq: H.S. chem or equiv & chem placement score of 30; or grade of C or better in Chem 100(P).

152 Foundations of Biological Sciences II. 4 cr. U. Organismal diversity, emphasizing structural and functional relationships in microorganisms, plants, and animals. Second of a two-course sequence for Bio Sci & other natural
science majors. 3 hr lec, 3 hr lab. Prereq: grade above C- in Bio Sci 150(P).

194 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.


202 Anatomy and Physiology I. 4 cr. U. Anatomy and physiology of the human body including cell, tissues, skeletal, muscular, and nervous systems. 3 hrs lec, 3 hrs lab. Required of students in nursing, med tech & med rec admin. Cannot be combined with Bio Sci 150 & 203 for more than 9 cr toward the bio sci major. Prereq: none.

203 Anatomy and Physiology II. 4 cr. U. Anatomy and physiology of the human body including cardiovascular, respiratory, digestive, excretory, endocrine, and reproductive systems. 3 hrs lec, 3 hrs lab. Cannot be combined with Bio Sci 150 & 202 for more than a total of 9 cr toward bio sci major. Cell & Molec Bio. Prereq: C or better in either Bio Sci 202(P) or 315(P).


289 Internship in Biological Sciences, Lower Division. 1-6 cr. U. Application of basic principles of biological sciences in a business, organizational, educational, political, or other appropriate setting. Specific topics may satisfy major area req; consult dept. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major. Prereq: intro course in Bio Sci; 2.50 gpa; cons supervising faculty member.

290 Independent Study and Research: (Subtitled). 1-3 cr. U. Directed library or laboratory/field research in biological sciences. Specific topics may satisfy major area req; consult dept. Retakable up to 6 cr max. Does not count as a Bio Sci lab course. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs and srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Specific topics may satisfy major area req; consult dept. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

310 General Ecology. 4 cr. U. Complex interrelationships between organisms and their environment. Physiological and behavioral adaptations, populations, biotic communities, ecosystems. 3 hrs lec, 3 hrs lab, field work. Prereq: grade of C or better in Bio Sci 152(P).

315 Cell Biology. 3 cr. U. Cell structure and function at the molecular level. Flow of material, energy, and information within prokaryotic and eukaryotic cells. 3 hrs lec. Cell & Molec Bio; Microbio. Prereq: grades of C or better in both Bio
316 Laboratory in Genetics and Cell Biology. 2 cr. U. Laboratory studies in genetics and cell biology using microorganisms, plants, and animals. Hypothesis testing, data collection, computer and literature analyses, and writing of scientific papers. 1 hr dis, 3 hr lab.|Cell & Molec Bio; Microbio. Prereq: grades of C or better in both Bio Sci 152(P) & Chem 104(P); Bio Sci 315(C) or 325(C).

325 Genetics. 4 cr. U. Principles of inheritance. Fundamental concepts of genetics. 3 hrs lec, 2 hrs dis.|Cell & Molec Bio; Microbio. Prereq: grade of C or better in Bio Sci 150(P); Bio Sci 152(C) or 203(P); Chem 104(C).

330 Human Parasitology. 4 cr. U. Biology, diagnosis and epidemiology of human parasitic diseases. For life science and clinical lab science students interested in public health. 3 hrs lec, 3 hrs lab.|Prereq: jr st; Bio Sci 310(C) or Bio Sci 325(C) or cons instr.


355 Introduction to Neuroscience II: From Brain to Behavior. 3 cr. U. Basic principles of neural systems and behavior; analysis of systems for sensation and perception, learning and memory, language, emotion, and motion.|Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 355 & Psych 355 are jointly offered; they count as repeats of one another. Prereq: BioSci 152(P) & 315(C), or Psych 254(P).

356 Developmental Biology. 3 cr. U. Development of living organisms at the molecular, cellular, and organismal levels. 3 hrs lec.|Cell & Molec Bio. Prereq: grade of C or better in either Bio Sci 315(P) or 325(P) or cons instr.

358 (305) Birds of Wisconsin. 2 cr. U. Bird taxonomy and ecology, including the identification of Wisconsin birds. 4 hrs lab & field work.|Field trip schedules (if any) and fees will be announced in class. Prereq: jr st; Bio Sci 150(P).


372 Animal Physiology and Neurobiology Laboratory. 1 cr. U. Neural integration of animal cells and organ systems. Comparative experimental approach examining structure-function relationships. 3 hrs lab.|Cell & Molec Bio. Prereq: Bio Sci 370(C) or Bio Sci/Psych 354(C) or 355(C).

380 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in modern and traditional biology and their relation to society.|Specific topics may satisfy major area req; consult dept. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

383 General Microbiology. 4 cr. U. Nature and properties of microorganisms. Molecular biology and genetics of bacteria and viruses. Major groups, ecological relationships, and taxonomy. 3 hrs lec, 4 hrs lab.|Cell & Molec Bio; Microbio. Prereq: Chem 341(P) or 343(P); Bio Sci 325(P) or cons instr.

383 (effective 09/02/2015) General Microbiology. 4 cr. U. Nature and properties of microorganisms. Molecular biology and genetics of bacteria and viruses. Major groups, ecological relationships, and taxonomy. 3 hrs lec, 4 hrs
401 Immunology. 2 cr. U/G. Fundamentals of the immune response, including cellular, physiological and molecular aspects. 2 hrs lec.|Cell & Molec Bio; Microbio. Prereq: jr st; Bio Sci 315(P) or 325(P); Chem 341(P) or 343(P).


406 Marine Biology. 3 cr. U/G. Marine biology with a strong ecological focus; physical and chemical constraints that marine environments impose on organisms; specialized adaptations of marine organisms in response. 3 hrs lec, 1 hr dis.|Prereq: jr st; grades of C or better in Bio Sci 152(P) & 310(C) or consent of instructor.

407 Plant Systematics and Evolution. 3 cr. U/G. Survey of important plant families; plant systematic theory, current techniques in data collection and analysis. 2 hrs lec/dis; 4 hrs lab.|Prereq: jr st; Bio Sci 152(P); Bio Sci 310(C) or 325(C); or grad st; or cons instr.

430 (530) Animal Behavior-Ethology. 3 cr. U/G. Animal behavior from the biologist's point of view, relating species-characteristic behavior to environment, internal function, ontogeny, and evolution. 3 hrs lec/dis.|Prereq: jr st; Bio Sci 310(P) or 316(C).


458 Community Ecology. 3 cr. U/G. Theories and models in community ecology. Analysis of biological communities emphasizing the origin, maintenance and consequences of species diversity within local communities.|Prereq: jr st; Bio Sci 152(P) & 310(P) or cons instr; or grad st.

465 Biostatistics. 3 cr. U/G. Simple distribution; statistical inference; simple regression theory; experimental design; analysis of variance and covariance as they relate to biology.|Prereq: jr st; Bio Sci 150(P); Math 105(P).

475 Tropical Biology: (Subtitled). 3 cr. U/G. Ecology and biogeography of various types of tropical forests, including required field trip to area being studied.|Required field trip at participants' expense. Retakable w/chg in topic to 9 cr max. Prereq: jr st; BioSci 310(P); cons instr.


489 Internship in Biological Sciences, Upper Division. 1-6 cr. U. Application of advanced principles of biological sciences in a business, organizational, educational, political, or other appropriate setting.|Specific topics may satisfy major area req; consult dept. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major. Prereq: jr st; 300-level or above course in Bio Sci; 2.50 gpa; cons supervising faculty member.

490 Molecular Genetics. 3 cr. U/G. Molecular mechanisms of higher organisms and model systems. Topics include

495 Internship in Biotechnology, Upper Division. 3-6 cr. U. Application of advanced principles in microbiology and biotechnology in appropriate settings. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; Bio Sci 383(303)(P) & 529(650)(P); declared microbiology major; 2.5 gpa; cons supervising faculty member.

496 UROP Apprenticeship, Upper-Level. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.


499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Specific topics may satisfy major area req; consult dept. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Plant Physiology. 3 cr. U/G. Major biological activities of plants; including growth, development, and metabolism. 3 hrs lec/dis.|Cell & Molec Bio. Prereq: jr st; Bio Sci 325(P); Bio Sci 310(P) or 315(P) or cons instr.

501 Plant Physiology Laboratory. 2 cr. U/G. Hands-on examination of plant activities using diverse experimental methods. 6 hrs lab/disc.|Prereq: jr st; Bio Sci 325(P) or cons instr; Bio Sci 500(R) recom.

502 Introduction to Programming and Modeling in Ecology and Evolution. 3 cr. U/G. Using R statistical language to teach script programming to address data manipulation, statistical modeling, and simple simulations in an ecological and evolutionary context. Counts as repeat of Bio Sci 599 w/similar topic. Prereq: jr st; intro stats (e.g., Bio Sci 465).

505 Conservation Biology. 3 cr. U/G. Genetic and ecological approaches to the conservation of biological diversity. Topics include biology of rare plants and animals, design of nature reserves, and restoration ecology. 3 hrs lec.|Prereq: jr st; Bio Sci 152(P) & 325(260)(P).


511 Ichthyology. 3 cr. U/G. The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptations to diverse ecological systems.|Bio Sci 511 & FrshWtr 511 are jointly offered; they count as repeats of one another. Prereq: jr st; grade of C or better in Bio Sci 310(P); or cons instr.

512 Limnology I. 3 cr. U/G. The ecology of freshwater ecosystems as influenced by physical and chemical processes.|Prereq: jr st; Bio Sci 150(P) & 152(P), course in chem; or cons instr.

523 Evolution and Ecology of Birds. 3 cr. U/G. Study of the origin and maintenance of diversity in birds. Topics include systematics, biogeography, life-history behavior, and conservation. 3 hrs lec.|Prereq: jr st; Bio Sci 152(P) & 310(P).

529 Molecular Biology of Microorganisms. 3 cr. U/G. Molecular analysis of microbial genetic systems of bacteria,
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<th>Course Code</th>
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<tr>
<td>535</td>
<td>Bacterial Pathogenesis</td>
<td>3 cr. U/G</td>
<td>Structural and physiological characteristics of important bacteria causing human and animal diseases. Interactions between pathogen and host, including host defense mechanisms. Cell &amp; Molec Bio; Microbio. Prereq: Jr st; Bio Sci 383(P).</td>
</tr>
<tr>
<td>536 (effective 09/02/2015)</td>
<td>Applied Microbiology and Biotechnology.</td>
<td>3 cr. U/G</td>
<td>Real-world application of natural and genetically-engineered microorganisms to bioremediation, waste treatment, agriculture and production of food, beverages, chemicals, fuels, enzymes, vaccines and pharmaceuticals. 3 hrs lec. Prereq: Jr st; Bio Sci 383(303)(P) or cons instr.</td>
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<tr>
<td>537 (effective 09/02/2015)</td>
<td>Industrial Microbiology and Biochemistry Laboratory.</td>
<td>2 cr. U/G</td>
<td>Experiments using industrial fermentation approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques. Bio Sci 537 &amp; Chem 537 are jointly offered; they count as repeats of one another. Prereq: Bio Sci 383(P); Chem 501(P).</td>
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<tr>
<td>539</td>
<td>Laboratory Techniques in Molecular Biology.</td>
<td>4 cr. U/G</td>
<td>Molecular biological techniques, including cell cultures, RNA and DNA isolation, cloning and sequencing of genes; use of expression vectors; protein electrophoresis. 2 hrs lec/dis, 6 hrs lab. Cell &amp; Molec Bio; Microbio. Prereq: Jr st; Bio Sci 315(P), 316(P), &amp; 325(P).</td>
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<tr>
<td>542</td>
<td>Biological Electron Microscopy</td>
<td>3 cr. U/G</td>
<td>Theory, design, and operating principles of scanning and transmission electron microscopes; preparation of biological specimens. Cell &amp; Molec Bio; Microbio. Prereq: Jr st; Bio Sci 315(P) &amp; 316(P), or cons instr.</td>
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<tr>
<td>544</td>
<td>Transmission Electron Microscopy Laboratory.</td>
<td>3 cr. U/G</td>
<td>Lab/dis with an emphasis on 'hands-on' exercises including fixation and sectioning of biological specimens, microscope operation and photography. Cell &amp; Molec Bio. Prereq: Jr st; Bio Sci 542(C) &amp; cons instr.</td>
</tr>
<tr>
<td>545</td>
<td>Physiology of Reproduction</td>
<td>3 cr. U/G</td>
<td>Mammalian reproductive physiology with emphasis on humans; neuroendocrine control of reproductive cycles, pregnancy, and lactation; clinical implications; biological aspects of human population control. Cell &amp; Molec Bio. Prereq: Jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.</td>
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<tr>
<td>556 (656)</td>
<td>Developmental Neurobiology</td>
<td>3 or 4 cr. U/G</td>
<td>The mechanisms involved in the genesis and maintenance of nervous system organization. 3 hrs lec, 1 hr dis. Cell &amp; Molec Bio. Grad students enroll in lec &amp; dis for 4 cr. Undergrads may enroll in lec only for 3 cr or lec &amp; dis for 4 cr. Prereq: Jr st; Bio Sci 354(P) or 356(P) or cons instr.</td>
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<tr>
<td>562</td>
<td>Topics in Field Biology: (Subtitled).</td>
<td>1-2 cr. U/G</td>
<td>Intensive mini-course on applied and basic field biology topics, e.g. vegetation sampling; natural area management; wetland delineation; identification, ecology of a taxon. On-line component; 2 or more days (depending on topic) in-person instruction. Retakable w/chg in topic to 6 cr max. Prereq: Jr st; Bio Sci 310(P) or equivalent; add'l prereqs may be required depending on topic.</td>
</tr>
<tr>
<td>564</td>
<td>Endocrinology</td>
<td>3 cr. U/G</td>
<td>Physiological, biochemical, and phylogenetic aspects of hormonal communication;</td>
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emphasis on vertebrates. 3 hrs lec.\textit{Cell \& Molec Bio.} Prereq: jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.

\textbf{565 Eukaryotic Gene Regulation. 3 cr. U/G.} Molecular mechanism by which genes are regulated in higher eukaryotes, including humans. Role of gene regulation during normal development and disease in eukaryotes.\textit{Cell \& Molec Bio.} Prereq: jr st, Bio Sci 315(P) or 325(P); or grad st.


\textbf{573 Cellular Evolution. 3 cr. U/G.} Theories concerning the origin of life on Earth and the evolution of cellular structure and function, culminating in the emergence of the multicellular kingdoms. 2 hrs lec, 1 hr dis.\textit{Cell \& Molec Bio; Microbio.} Prereq: sr st; Bio Sci 315(P) or 325(P); Bio Sci 316(P); Chem 341/342(P) or 343/344/345(P), or cons instr; Bio Sci 383(R) or 490(R) or Chem 501(R) or 601(R).


\textbf{580 Experimental Microbiology. 4 cr. U/G.} Modern experimental approaches to study of microbial physiology and genetics. 2 hrs lec/6 hrs lab.\textit{Cell \& Molec Bio; Microbio.} Prereq: jr st; Bio Sci 383(P).

\textbf{596 Neuropharmacology. 3 cr. U/G.} Cellular and molecular mechanisms of drug action on the nervous system. Topic include drug affects on neurotransmitters, receptors, cell signaling, and neurological disease/disorders.\textit{Cell \& Molec Bio; Microbio.} Prereq: jr st; BioSci/Psych 354(P) or 355(P) or Psych 654(P) or cons instr.

\textbf{597 RNA Structure, Function, and Metabolism. 3 cr. U/G.} Structural and functional complexity of RNA. RNA as genetic material, enzymes and regulators; micro RNAs as potential therapeutics.\textit{Cell \& Molec Bio; Microbio.} Prereq: jr st; Bio Sci 325(P) or cons instr.

\textbf{599 Special Topics in Biological Sciences: (Subtitled). 1-3 cr. U/G.} In-depth examination of important subjects in one or more areas of the biological sciences. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.\textit{Retakable w/chg in topic to 9 cr max.} Prereq: jr st.

\textbf{611 Seminar on Recent Advances in Limnology and Oceanography: (Subtitled). 2 cr. U/G.} Lectures and discussion of current issues in limnology and oceanography; focus on a specific issue or research topic.\textit{Retakable w/chg in topic to 6 cr max.} Prereq: jr st; Bio Sci 512(P) or cons instr.

\textbf{667 Advanced Techniques in Microbial, Molecular and Cellular Biology: (Subtitled). 4 cr. U/G.} Such topics as hybridoma technology, bacterial gene transfer, gene expression systems. 1 hr dis, 6 hrs lab. Topic and any add'l prereqs announced in Schedule of Classes each time course is offered.\textit{Retakable w/chg in topic to 9 cr max.} Prereq: sr st; Bio Sci 383(303)(P) or equiv or cons instr.

\textbf{670 Senior Seminar in Biological Sciences. 1 cr. U.} Examination of biological literature and preparation, presentation, and discussion of oral reports by individual students.\textit{Prereq: sr st; Bio Sci lab course numbered 300-349; declared Bio Sci major.}

\textbf{671 Undergraduate Seminar in Microbiology. 1 cr. U.} Examination of microbiological literature; preparation, presentation, and discussion of oral reports by individual students.\textit{Prereq: sr st; Bio Sci 383(P).}

\textbf{672 Undergraduate Seminar in Cell and Molecular Biology. 1 cr. U.} Examination of cell and molecular biology literature; preparation, presentation, and discussion of oral reports by individual students.\textit{Prereq: sr st; Bio Sci 315(P) \& 316(P).}
695 Independent Study in Freshwater Sciences for Biological Sciences Students. (Subtitled). 1-3 cr. U.
Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science. Bio Sci 695 & FrshWtr 695 are jointly offered; w/same subject, they count as repeats of one another. Retakable to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 310(P), 315(P), 316(P), 325(P), & 383(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

697 Independent Study in Cell and Molecular Biology. (Subtitled). 1-3 cr. U. Independent and original research conducted under the direction of a cell/molecular biology faculty or staff member. Retakable to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

698 Independent Study in Microbiology. (Subtitled). 1-3 cr. U. Introduction to research. Independent and original study conducted under the direction of a faculty or staff member. Retakable up to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 383(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

699 Independent Study. (Subtitled). 1-3 cr. U. Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member. Requires submission of a formal study proposal. Retakable up to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 325(260)(P); Bio Sci 310(P) or Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.
88 New Student Orientation. 0 cr. U. Study skills, computer technology, library resources, career opportunities, UWM resources, SBA requirements. Required of all new students. Prereq: none.

100 Introduction to Business. 3 cr. U. Introduction to the nature and functions of business, the culture of the business world and business education, and the skills to be successful in both. Prereq: not open for cr or regis to Business jr, pre-Business sr, or Business sr.

200 Business and Society. 3 cr. U. Integrated understanding of sources of competitive/strategic advantage derived from corporate citizenship in the public policy, social, economics, and ecological environments. Counts as repeat of Bus Adm 295 w/same topic. Prereq: soph st.


207 Business Scholars: Introduction to Financial Accounting. 4 cr. U. Introduces financial accounting concepts and investigates current financial reporting issues. Develops ability to prepare financial statements and to understand and analyze annual reports of real-world companies. Not open for cr to those w/cr in Bus Adm 201. Prereq: soph st; Admis to Business Scholars Prog.

210 Introduction to Management Statistics. 4 cr. U. Introduces statistical principles and techniques necessary for management applications. Regression is presented to convey statistical thinking, modeling and analysis. Counts as repeat of Bus Adm 211. Prereq: soph st; Math 211(C) or 231(C).

211 Business Scholars: Introduction to Management Statistics. 4 cr. U. Data presentation & statistical inference methods, probability concepts, discrete & continuous probability models, categorical data & regression methodologies, computer implementation, communication of statistical results, & business applications. Not open for cr to those w/cr in Bus Adm 210. Prereq: soph st; admis to Business Scholars Prog; Math 211(P) or 231(P).

230 Introduction to Information Technology Management. 3 cr. U. Information technology management concepts; their role in business; management of formal and informal information systems development; business problem solving using microcomputer tools. Counts as repeat of Bus Adm 231. Prereq: none.
231 Business Scholars: Introduction to Information Technology Management. 3 cr. U. Fundamental concepts and application of information technology to support the conduct and management of business activities. Lab tools include common applications software for data gathering, analysis, and presentation. Not open for cr to those w/cr in Bus Adm 230. Prereq: admis to Business Scholars Prog or dept cons.

292 Introduction to Entrepreneurship and Small Business Formation. 3 cr. U. Explore elements necessary for entrepreneurship to flourish. Larger perspectives of the character and mental set of entrepreneurs and effect on the success of the business. Counts as repeat of Bus Adm 295 with similar topic. Prereq: soph st.

295 Management Seminar: (Subtitled). 1-3 cr. U. Analysis of current topics and issues related to specific management areas of business. Specific topics and additional prerequisites may appear in the Schedule of Classes whenever the course is offered. May be retaken with change in topic to max of 6 cr. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. May be retaken with change in topic. Prereq: acceptance for Study Abroad Prog.

298 Study Abroad: Business Topics: (Subtitled). 3 cr. U. Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries. May be retaken with change in topic to max of 6 cr. Prereq: soph st; acceptance in Study Abroad Prog.

300 Career and Professional Development. 1 cr. U. Skills necessary to enter the job market. Includes professional correspondence, resume writing, interviewing and networking skills, and professional etiquette. Prereq: soph st; Bus Adm 301(C) or 335(C) or 330(C) or 350(C) or 360(C) or 370(C).

301 Intermediate Accounting. 4 cr. U. Understanding the economic impact of business transactions and serving the information needs of statement users. Use of accounting principles to guide financial reporting and disclosure. Prereq: soph st; Math 211(P); Bus Adm 230(P) or 231(P); a grade of 'B' or better in Bus Adm 201(P) or 207(P) within three years of enrollment; 3.00 cum gpa.

302 (202) Managerial Accounting. 3 cr. U. The analysis, interpretation and use of accounting data for effective managerial planning, control, and decision making. Not open for credit to Accounting majors. Prereq: soph st; Bus Adm 201(P).

305 Taxes and Personal Financial Planning. 3 cr. U. Introduction to taxation of individuals, with emphasis on the effect of taxation on business, investment and personal planning issues and strategies. Not open for credit to Accounting majors. Prereq: soph st.

330 Organizations. 3 cr. U. An introduction to human behavior in organizations, organizational structures and processes, and interactions between organizations and their environments. Students will examine various theories and research findings on selected topics. Counts as repeat of Bus Adm 331. Prereq: jr st.

331 Business Scholars: Organizations. 3 cr. U. Behavioral theories and management principles for understanding behavior in organizations; individual and organizational processes, and their interaction. Includes current and classic research, and application. Not open for cr to those w/cr in Bus Adm 330. Prereq: jr st; admis to Business Scholars Prog.

335 Visual System Development. 3 cr. U. Visual-oriented techniques for business applications development; visual-oriented design and development methodologies; use of event driven and graphical controls; implementation with an appropriate language. Prereq: soph st; a grade of 'C' or better in Bus Adm 230(P) or 231(P).

336 Enterprise Systems and Data Analytics. 3 cr. U. Introduction to business processes and ERP, utilizing ERP to run business simulation game and analysis of results utilizing business analytics. Prereq: soph st; a grade of 'C' or better in Bus Adm 230(P) or 231(P).

350 Principles of Finance. 3 cr. U. Fundamentals of financial management, asset/liability valuations, risk and return,
investment analysis, sources and uses of funds, cost of capital, and cash management.\(^1\) Counts as repeat of Bus Adm 351. Prereq: soph st; Econ 103(P) & 104(P); Bus Adm 201(P) or 207(P); Bus Adm 210(P) or 211(P).

\textbf{350 (effective 09/02/2015) Principles of Finance. 3 cr. U.} Fundamentals of financial management, asset/liability valuations, risk and return, investment analysis, sources and uses of funds, cost of capital, and cash management.\(^1\) Counts as repeat of Bus Adm 351. Not open for cr to those w/cr in Bus Adm 450. Prereq: soph st; Econ 103(P) & 104(P); Bus Adm 201(P) or 207(P); Bus Adm 210(P) or 211(P).

\textbf{351 Business Scholars: Principles of Finance. 3 cr. U.} Fundamentals of financial management, analysis of financial statements, risk and return, debt/equity valuations, cost of capital, capital budgeting, capital structure, and dividend policies.\(^1\) Not open for cr to those w/cr in Bus Adm 350. Prereq: soph st; admis to Business Scholars Prog; Econ 103(P) & 104(P); Bus Adm 207(P) & 211(C).

\textbf{360 Principles of Marketing. 3 cr. U.} The marketing system is analyzed as the process in our socioeconomic system for anticipating and satisfying consumer needs, adjusting to demand, and selling and procuring products and services. Competition, pricing, product line, distribution systems, promotion, and planning are discussed.\(^1\) Counts as repeat of Bus Adm 361. Prereq: jr st; Econ 104(P).

\textbf{361 Business Scholars: Principles of Marketing. 3 cr. U.} Marketing theory and tactics in context of current external marketing environment. Discussion of current marketing issues, failures, and successes along with industry and company strategic differences. Analytical tools used for team project.\(^1\) Not open for cr to those w/cr in Bus Adm 360. Prereq: jr st; admis to Business Scholars Prog; Econ 104(P).

\textbf{370 Introduction to Supply Chain Management. 3 cr. U.} Broad survey of the foundational concepts and principles of managing supply chain operations. Topic areas include customer management, purchasing, logistics, project management, demand planning.\(^1\) Counts as repeat of Bus Adm 371. Prereq: soph st; Bus Adm 210(C) or 211(C).

\textbf{371 Business Scholars: Introduction to Supply Chain Management. 3 cr. U.} Broad survey of foundational concepts and principles of managing supply chain operations. Topics include customer management, purchasing, logistics, project management, demand planning, quantitative and computer applications.\(^1\) Not open for cr to those w/cr in Bus Adm 370. Prereq: soph st; admis to Business Scholars Prog; Bus Adm 211(P).

\textbf{380 Introduction to Real Estate Markets. 3 cr. U.} The course focuses on real estate investment decisions as they are made within the framework of institutional controls consisting of social, political, and economic forces.\(^1\) Prereq: jr st; Econ 104(P).

\textbf{389 Real Estate Internship. 3 cr. U.} A faculty-supervised new work experience in the real estate area which covers a minimum of 150 hours during the semester.\(^1\) Counts as repeat of Bus Adm 489. Credit/no credit only. Prereq: jr st; Bus Adm 481(P); writ cons instr.

\textbf{391 Business Law I. 3 cr. U.} The court system, tort law, agency and employment law; contract law and sales transactions; professional liability; and legal ramifications of selecting appropriate business organization.\(^1\) Counts as repeat of Bus Adm 390. Prereq: jr st.

\textbf{393 (293) Business Ethics & Social Responsibility. 3 cr. U.} Ethical dimensions of economy, management decision-making, and corporate social responsibility. Ethical framework for assessment of business practices. Includes case discussions.\(^1\) Counts as repeat of Bus Adm 295 with similar topic. Prereq: soph st.

\textbf{394 Human Resources Management Internship. 3 cr. U.} A faculty-supervised new work experience in the human resources management area which covers a minimum of 150 hours during the semester. Credit/no credit only. Prereq: jr st & admis to HRM major; completion of at least one 400-level course in HRM major; writ cons instr.

\textbf{395 Special Topics in Business: (Subtitled). 1-3 cr. U.} Current topics and issues related to specific management areas of business. Specific topics and additional prerequisites announced in Schedule of Classes whenever the course is
offered. May be retaken w/chg in topic to max of 9 cr. Counts as repeat of Bus Adm 295 or 495 with same topic. Prereq: jr st.

396 Finance Internship. 3 cr. U. A faculty-supervised new work experience in the finance area which covers a minimum of 150 hours during the semester. Credit/no credit only. Prereq: jr st & admis to finance major; completion of at least one 400- or 500-level course in finance major; writ cons instr.

397 Marketing Internship. 3 cr. U. A faculty-supervised new work experience in the marketing area which covers a minimum of 150 hours during the semester. Credit/no credit only. Prereq: jr st & admis to marketing major; completion of at least one 400-level course in marketing major; writ cons instr.

398 Supply Chain & Operations Management Internship. 3 cr. U. A faculty-supervised new work experience in the SCOM area which covers a minimum of 150 hours during the semester. Credit/no credit only. Prereq: jr st & admis to SCOM major; completion of at least one 400- or 500-level course in SCOM major; writ cons instr.

400 Accounting Professional Internship. 3 cr. U. A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/public accounting environment. Prior approval of intern director is required. Credit/no credit only. Prereq: sr st & admis to accounting major; Bus Adm 300(P); Bus Adm 301(P) and one 400-level accounting course; writ cons instr.

402 Advanced Financial Accounting. 3 cr. U. Study of advanced financial accounting issues such as interim reporting, leases, specialized revenue recognition, tax allocation, dilutive securities, derivatives, and financial troubled entities. Prereq: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P).

404 Cost Management. 3 cr. U. Design, implementation, and use of optimal accounting systems for product and service costing, internal and external financial reporting, managerial decision support, and organizational control. Prereq: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P).

405 Income Tax Accounting I. 3 cr. U. Introduction to tax issues inherent in business and financial transactions, with an emphasis on the federal individual and corporate income tax. Prereq: jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 301(P); or grad st & Bus Adm 721(C).


408 Accounting Information Systems. 3 cr. U/G. Introduction to accounting information systems and related technology, principles of accounting systems design, internal controls and coverage of commercial accounting software packages. Prereq: jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 301(P); or grad st & Bus Adm 721(P).

409 Auditing: Procedures and Applications. 3 cr. U. An introduction to the audit process from an internal and external perspective with an emphasis on practical applications and technological innovations. Prereq: jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P); Bus Adm 402(P) & 408(P).

432 Object-Oriented Systems Development. 3 cr. U. Object-oriented concepts and use in management applications; object-oriented design and development methodologies; managing programs and structures; implementation with an appropriate language. Prereq: jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 335(P).

433 Information Technology Project Management. 3 cr. U. In-depth exposure to key tools, techniques, practices, and knowledge areas of IT project management. Microsoft 2003 used to support. Number of team-based projects involved. Prereq: jr st & admis to Bus Adm major; Bus Adm 436(P).

434 Data Base Management Systems. 3 cr. U. Database concepts; data modeling; SQL; fourth generation languages;
data resource management; client/server databases; implementation using commercial DBMS products.|Prereq: jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).

436 Systems Analysis and Design. 3 cr. U. Systems development methodologies; systems modeling, requirements specification, structured design, and systems implementation; use of automated development tools.|Prereq: jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).

438 Information Technology Management Topics: (Subtitled). 3 cr. U. Contemporary topics for IT practitioners. Typical offerings include distributed information systems, management of IT, decision support systems, end-user computing, multimedia systems. Additional prerequisites announced in Schedule of Classes each time course is offered.|May be retaken with change in topic to max of 6 cr. Prereq: jr st & admis to Bus Adm major; Grade 'C' or better in Bus Adm 335(P); or cons instr.

439 Information Technology Management Professional Internship. 3 cr. U. A defined FT one semester work period, potentially leading to FT employment in a corporate/governmental/management consulting environment.|Credit/no credit only. Prereq: jr st & admis to ITM major; Bus Adm 300(P); one 400- or 500-level ITM course; writ cons instr.

440 Compensation Management. 3 cr. U. Ways organizations use wage and salary management to attract, retain, and motivate employees. Review of traditional and innovative compensation methods for administering pay.|Counts as repeat of Bus Adm 443 with similar title. Prereq: jr st, admis to Bus Adm major, Bus Adm 444(P) or grad st & Bus Adm 738(P).

441 Diversity in Organizations. 3 cr. U/G. Conceptual and experiential understanding of cultural values and practices among diverse groups in organizations. Addresses institutional and personal discrimination, stereotyping and prejudice.|Counts as repeat of Bus Adm 443 with similar title. Prereq: jr st, admis to Bus Adm major, & Bus Adm 330(C); or grad st.

442 Industrial Psychology. 3 cr. U/G. Application of psychological principles to industrial problems.|Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); & Psych 101(P).

443 Special Topics in Human Resources Management: (Subtitled). 3 cr. U. Selected topics in human resources management. Specific topics will appear in the Schedule of Classes whenever the course is offered.|May be retaken with change in topic to max of 9 cr. Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); or grad st.

444 Human Resources Management. 3 cr. U. An examination of the personnel function of the enterprise as an activity concerning all managers within the firm. General topics include the personnel function, maximizing human potential, supervision, and wage and salary administration.|Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P).

445 Training & Development in Organizations. 3 cr. U/G. Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.|Counts as repeat of Bus Adm 443 with similar title. Not open to students w/cr in Commun 327(ER). Prereq: jr st, admis to Bus Adm major, & Bus Adm 444(P); or grad st.


448 Staffing Human Resources. 3 cr. U. Planning, recruiting, selection, and hiring functions in organizations within the context of its legal environment. Includes application of spreadsheet and data analysis.|Counts as repeat of Bus Adm 443 with similar title. Prereq: jr st, admis to Bus Adm major; & Bus Adm 444(P); or grad st & Bus Adm 738(P).

449 Human Resources Management Professional Internship. 3 cr. U. A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.|Credit/no credit only. Prereq: sr st & admis to HRM major; Bus Adm 300(P) & completion of at least one
400-level course in the HRM major; writ cons instr.

450 (effective 09/02/2015) Intermediate Finance. 3 cr. U. Theories of valuation, corporate governance, and capital structure. Other topics explored such as dividend policy, financing methods, corporate and financial restructurings, and global financial management. Prereq: jr st & admis to Bus Adm major; a grade of "C" or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of "B" or better in Bus Adm 301(P).

450 Intermediate Finance. 3 cr. U. Theories of valuation, corporate governance, and capital structure. Other topics explored such as dividend policy, financing methods, corporate and financial restructurings, and global financial management. Prereq: jr st & admis to Bus Adm major; a grade of "C" or better in Bus Adm 350(P) or 351(P).

451 Investment Finance. 3 cr. U. A study of the financial system and institutions and the primary forces, which affect this system within which firms operate. Emphasis is on the instruments and interactions in the money and capital markets, and on analysis of firms for purposes and valuation of bonds and stocks for portfolio management. Prereq: jr st & admis to Bus Adm major; a grade of "C" or better in Bus Adm 350(P) or 351(P); Bus Adm 450(C).

451 (effective 09/02/2015) Investment Finance. 3 cr. U. A study of the financial system and institutions and the primary forces, which affect this system within which firms operate. Emphasis is on the instruments and interactions in the money and capital markets, and on analysis of firms for purposes and valuation of bonds and stocks for portfolio management. Prereq: jr st & admis to Bus Adm major; Bus Adm 450(C).


453 Corporate Finance Seminar. 3 cr. U. Integration of financial operations with other operations of a business unit, including working capital management, financial planning and financial control. Prereq: jr st & admis to Bus Adm major; Bus Adm 450(P).

454 Analysis of Options and Futures. 3 cr. U. Valuate interest rate, equity, and stock index futures and options. Develop strategies using these instruments in hedging interest rate and equity portfolio risk. Prereq: jr st & admis to Bus Adm major; Bus Adm 451(P).

455 (effective 09/02/2015) Financial Institutions. 3 cr. U. Financial intermediation by banks and other financial institutions. Financial instruments and the markets where they trade. Term structure of interest rates and monetary issues. Prereq: jr st & admis to Bus Adm major; a grade of "C" or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of "B" or better in Bus Adm 301(P).

455 Financial Institutions. 3 cr. U. Financial intermediation by banks and other financial institutions. Financial instruments and the markets where they trade. Term structure of interest rates and monetary issues. Prereq: jr st & admis to Bus Adm major; a grade of "C" or better in Bus Adm 350(P) or 351(P).

456 (effective 09/02/2015) International Financial Management. 3 cr. U. Introduction to international financial markets, exchange rate determination theory, concepts/measurement of foreign risk exposure, financial instruments to hedge exchange risk, and financing multinational enterprises. Prereq: jr st & admis to Bus Adm major; a grade of "C" or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of "B" or better in Bus Adm 301(P).

456 International Financial Management. 3 cr. U. Introduction to international financial markets, exchange rate determination theory, concepts/measurement of foreign risk exposure, financial instruments to hedge exchange risk, and financing multinational enterprises. Prereq: jr st & admis to Bus Adm major; a grade of "C" or better in Bus Adm 350(P) or 351(P).


459 **Finance Professional Internship. 3 cr. U.** A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment. |Credit/no credit only. Prereq: sr st & admis to finance major; Bus Adm 300(P) & completion of at least one 400- or 500-level course in finance major; writ cons instr.

460 **Retail Management. 3 cr. U.** Principles of retail management including merchandising, product design and development, sales, store management, distribution and inventory management, public relations and advertising. |Counts as repeat of Bus Adm 467 with similar topic. Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

461 **Consumer Behavior. 3 cr. U.** Interdisciplinary approach to study of buying behavior of consumers, with emphasis on implications for marketing of theory and findings from the behavioral sciences. |Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

462 **Marketing Research. 3 cr. U.** Research process as an aid to decision-making in marketing management. Attention is given to planning research and the gathering, analysis, and interpretation of information. |Prereq: jr st & admis to Bus Adm major; Bus Adm 210(P) or 211(P); & 360(P) or 361(P).

463 **Marketing Management. 3 cr. U.** Development and implementation of marketing plans. Strategic decision-making and organizational issues pertinent to target markets, advertising, personal selling, channels, pricing, and product development. |Prereq: jr st & admis to Bus Adm major; Bus Adm 461(P) & 462(P).

464 **Management of Promotion. 3 cr. U.** Theory and concepts in developing and implementing communications strategies. Analysis of psychological, social and economic variables affecting promotion decisions. |Prereq: jr st & admis to Bus Adm major; Bus Adm 461(P).

465 **International Marketing. 3 cr. U.** Focus is on the environment and on the modifications of marketing thinking and practices, occasioned by differences in economic, social and cultural settings of countries. |Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

466 **Business to Business Sales and Marketing. 3 cr. U.** Development, pricing, promotion and distribution of business productions and services targeted at organizational buyers. Special focus on business sales processes and effective personal selling strategies. |Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

467 **Marketing Seminar: (Subtitled). 3 cr. U.** In-depth focus on specialized topics in marketing such as business-to-business sales and marketing, database and interactive marketing, and international marketing research and strategies. |Retakable w/chg in topic to max of 9 cr. Prereq: jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

468 **Internet Marketing. 3 cr. U.** Introduction to the principles of internet marketing, types of products that can be marketed online, communication and pricing strategies, customization, channel conflict resolution. Hands-on project required. |Prereq: jr st & admis to Bus Adm major; Bus Adm 461(P) or 462(P).

469 **Marketing Professional Internship. 3 cr. U.** A defined FT work period, minimum 10 weeks, potentially leading to FT employment in corporate/governmental/management consulting environment. |Credit/no credit only. Prereq: sr st & admis to marketing major; Bus Adm 300(P) & completion of at least one 400-level course in the marketing major; writ cons instr.

472 **Special Topics in Supply Chain and Operations Management: (Subtitled). 3 cr. U.** Selected contemporary topics and issues confronting supply chain and operations managers. |Retakeable with change in topic to max of 9 cr.
473 Supply Chain Management. 3 cr. U. Introduction to supply chain system activities - inventory management, warehousing, transportation, location and information, and the tools for making supply chain design and coordination decisions. Prereq: jr st (excluding Pre-Bus srs & Univ Special Students with no undergrad degree); Bus Adm 370(P) or 371(P).

474 Spreadsheet Applications in Operations Management. 3 cr. U. Application of spreadsheet software for statistical and optimization modeling of managerial problems from the operations area and solving them using spreadsheets to make optimal decisions. Prereq: jr st (excluding Pre-Bus Adm srs & Univ Special Students with no undergrad degree); Bus Adm 370(P) or 371(P).

475 Operations Planning and Control. 3 cr. U. Detailed focus on planning and controlling operations of a service or manufacturing operation. Topics include requirements planning and scheduling. Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

476 Logistics and Transportation Management. 3 cr. U. Logistics and transportation themes including warehousing, third party logistics. Counts as repeat of Bus Adm 472 with similar topic. Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

477 Purchasing and Supply Management. 3 cr. U. Domestic and global aspects of the purchasing function in an organization. Counts as repeat of Bus Adm 472 with similar topic. Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

478 Supply Chain Analytics. 3 cr. U. Topics include linear and nonlinear optimization, network modeling, decision making under uncertainty, time series forecasting, and simulation modeling. Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

479 Supply Chain & Operations Management Professional Internship. 3 cr. U. Defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment. Cr/no cr only. Prereq: sr st & admis to Bus Adm major; Bus Adm 300(P) and completion of at least one 400- or 500-level SCOM course; writ cons instr.


482 Valuation of Real Estate. 3 cr. U/G. Economic theories of value applied to real estate; valuation as a guide to business decisions; real estate market which affects value; valuation methods, analysis of evidence of value; appraising residential and income properties. Prereq: jr st & admis to Bus Adm major; Bus Adm 380(P).

483 Property Development and Management. 3 cr. U/G. Analysis of real estate development; consideration of site selections, market analysis, financing, design, and construction in connection with subdividing residential community development and shopping centers. Prereq: jr st & admis to Bus Adm major; Bus Adm 481(P) or grad st.

484 Real Estate Law. 3 cr. U. Advanced application of business law concepts related to real estate transactions and developments; landlord/tenant law; analysis of legal concerns unique to real estate industry. Prereq: jr st & admis to Bus Adm major; Bus Adm 391(P).

485 Environmental Issues in Real Estate. 3 cr. U. Survey course dealing with the impact of governmental environmental regulations on lender and developer liability. Topics include Phase 1 reporting, legal considerations, remediation, and wetland impacts. Prereq: jr st & admis to Bus Adm major; Bus Adm 380(P).

490 Entrepreneur Internship. 3 cr. U. A defined work period in an entrepreneurial capacity in a corporate,
governmental, or management consulting environment. Credit/no credit only. Prereq: jr st & admis to Bus Adm major; Bus Adm 447(P) or completion of at least one 400-level course in student's major; writ cons instr instr.

491 Legal Issues for Entrepreneurs. 3 cr. U. Legal issues confronting entrepreneurs including the areas of ethics, forms of business organization, sales contracts, employment, property and business succession. Not open for credit to Business Scholars who completed Bus Adm 493 with similar topic. Not open for credit to Accounting majors. Prereq: jr st & admis to Bus Adm major; Bus Adm 391(P).

492 Business Modeling of New Ventures. 3 cr. U. Key elements in developing an effective business model; new venture ideas and strategies; the owner manager; management succession. Prereq: jr st & admis to Bus Adm major; Bus Adm 292(P) or Bus Adm 447(P).

493 Business Scholars: Seminar in Business: (Subtitled). 3 cr. U. Current topics and issues in contemporary business theory and management practice, focusing on in-depth study, critical analysis, research and application across functional areas. Specific topics and additional prerequisites announced in Timetable whenever course is offered. May be retaken with change in topic to a 9 cr max. Prereq: jr st; admis to Business Scholars Prog.

494 International Business Internship. 3 cr. U. A supervised international management-related and cross-cultural experience with a for-profit or non-profit organization outside the U.S. Project and organizational evaluation required. Credit/no credit only. Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P), 350(P), and 360(P); writ cons instr.

494 (effective 01/25/2016) International Business Internship. 3 cr. U. A supervised international management-related and cross-cultural experience with a for-profit or non-profit organization outside the U.S. Project and organizational evaluation required. Credit/no credit only. Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P), 301(P) or 350(P) or 351(P), and 360(P) or 361(P); writ cons instr.

495 Special Topics in Business: (Subtitled). 1-3 cr. U. Current topics and issues related to specific management areas of business. Specific topics and additional prerequisites announced in Schedule of Classes whenever course is offered. May be retaken with change in topic to max of 9 cr. Prereq: jr st.

496 International Business. 3 cr. U. The study of major factors specific to the conduct of business in international markets; focuses on the integration of marketing, finance, production, and other management functions into the world business, cultural, social, and political environments. Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P), 350(P), 360(P).

496 (effective 01/25/2016) International Business. 3 cr. U. The study of major factors specific to the conduct of business in international markets; focuses on the integration of marketing, finance, production, and other management functions into the world business, cultural, social, and political environments. Prereq: jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); Bus Adm 301(P) or 350(P) or 351(P); Bus Adm 360(P) or 361(P).

497 Study Abroad: (Subtitled). 1-12 cr. U/G. May be retaken with change in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Study Abroad: Business Topics: (Subtitled). 3 cr. U. Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries. May be retaken with change in topic to max of 6 cr. Prereq: jr st; acceptance in Study Abroad Prog.

499 Research in Industry. 1-3 cr. U. Solution of business problems as jointly developed by the student, the assigned faculty, and the cooperating company. Work will consist of problem solving through the use of university resources and library research. Retakeable for cr only with prior cons Lubar School of Business. Prereq: jr st; cons instr.

530 Introduction to eBusiness. 3 cr. U. Opportunities, technical platforms, and limitations of eBusiness over the Internet. Various eBusiness models and implementation technologies will be discussed. Prereq: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 335(P).
531 Developing Web Applications Using Web Services. 3 cr. U. Developing n-tier systems with Web Services and the Internet, using visual languages such as Visual Basic Script and C# and the SOAP and XML protocols.|Prereq: jr st & admis to Bus Adm major; Bus Adm 432(P).

532 Web Development for Open Business Systems. 3 cr. U. Business applications and web development based on platform-independent objective-oriented technologies and database connectivity in creating information systems for eBusiness activities.|Prereq: jr st & admis to Bus Adm major; Bus Adm 432(P).

533 Information Technology Infrastructure for Business. 3 cr. U. Familiarize students with new infrastructure developments in telecommunications and network technologies, as well as their managerial and business applications.|Prereq: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 335(P).

534 Advanced Information Technology Project Management. 3 cr. U. Student-teams will compete for and work on a real-world IT project and present the completed project to the company's stakeholders.|Credit/no credit only. Prereq: jr st & admis to Bus Adm major; Bus Adm 433(P).

535 Global Information Technology Management. 3 cr. U. Management issues surrounding the effective deployment of information systems in different regions of the world.|Prereq: jr st & admis to Bus Adm Major; a grade of C or better in Bus Adm 230(P) or 231(P).

536 Business Intelligence. 3 cr. U. Introduction to business intelligence, with a focus on data warehousing and data mining. This course uses SAP Business Information Warehouse software.|Prereq: jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 335(P) or 336(P).

537 Enterprise Systems Concepts and Issues. 3 cr. U. Advanced concepts in ERP and integrated nature of business processes, and all major components of SAP R/3 and NetWeaver tools.|Prereq: jr st & admis to Bus Adm major; grade of C or better in Bus Adm 335(P) or 336(P).


539 Web Application Server Development. 3 cr. U. ERP Web Application Servers; Web Dynpro for Java to develop Web Applications, Web services and portal content which exposes data from SAP Business Suite.|Prereq: jr st & admis to Bus Adm major; grade of C or better in Bus Adm 335(P) or 336(P).

540 TERP 10 Certification. 3 cr. U. This course is designed to prepare students for taking the TERP10 Certification Exam - the global baseline certification standard for SAP University Alliances Program.|Prereq: jr st & admis to Bus Adm major; Bus Adm 536(P), 537(P), and 538(P).

541 Cross-Cultural Management. 3 cr. U. Business cultures around the world; the impact of cultural differences in international management and negotiations.|Bus Adm 541 and Global 541 are jointly offered; they count as repeats of one another. Prereq: jr st & admis to Bus Adm major or declared Global Studies program; Bus Adm 330(P).

542 Introduction to Technology Entrepreneurship. 3 cr. U. Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities.|Counts as repeat of Bus Adm 495 or MechEng 490 with same topic. Jointly offered with & counts as repeat of MechEng 542. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.

543 Introduction to Technology Management and Innovation. 3 cr. U. Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects.|Counts as a repeat of Bus Adm 495 with same topic. Jointly offered with & counts as repeat of MechEng 543.
Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.

544 New Product Development. 3 cr. U/G. Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams. Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as a repeat of MechEng 544. Prereq: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.

546 Global Innovation Management. 3 cr. U/G. Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects. Counts as a repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of MechEng 546. Prereq: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.

548 Technology Venturing Project. 3 cr. U. A capstone course for students to demonstrate their knowledge and skills related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures. Jointly offered with & counts as repeat of MechEng 548. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major; Bus Adm/Mech Eng 542(P).


552 Investment Management Practice I. 3 cr. U/G. Introduction to the real-time and historic data sets available in the David O. Nicholas Applied Finance Lab. Utilize Bloomberg, FactSet, and other analysis packages. Prereq: jr st, admis to Investment Mgmt Cert program, Bus Adm 301(C) & 451(C); or grad st, admis to Investment Mgmt Cert program, Bus Adm 301(C) or 721(C); 771(C).

553 Investment Management Practice II. 3 cr. U/G. Students manage an investment portfolio utilizing the David O. Nicholas Applied Finance Lab. Topics include securities selection, portfolio hedging, behavioral finance, and financial market events. Prereq: jr st, admis to Investment Mgmt Cert program & Bus Adm 552(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 552(P).

554 Investment Management Practice III. 3 cr. U/G. Students independently conduct special study to assist individual future professional development and gain maturity and confidence in real world investment management. Prereq: jr st, admis to Investment Mgmt Cert program & Bus Adm 553(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 553(P).

571 Quality and Six Sigma Tools. 3 cr. U. Principles and techniques for managing and improving quality in manufacturing and service operations. Topics include lean principles, quality function deployment, FMEA, DOE, others. Prereq: jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

576 (471) Enterprise Planning in the Supply Chain. 3 cr. U. Coverage of techniques for managing work processes within and across the supply chain. An integrated perspective is emphasized through hands-on experience with an enterprise software. Prereq: jr st & admis to Bus Adm major; Bus Adm 475(P), 476(P) & 477(P).

599 Reading and Research-Business Administration. 1-3 cr. U. Retakeable for cr only with prior approval of Lubar School of Business. Prereq: jr st; cons instr & Bus Adm.

600 (effective 01/25/2016) Management Analysis. 3 cr. U. Administrative processes under conditions of uncertainty including integrating analysis of policy determination at the overall management level. Capstone course in business administration. Prereq: sr st & admis to Bus Adm major; Bus Adm 301(P) or 302(P); Bus Adm 330(P) or 331(P); Bus Adm 350(P) or 351(P) or 450(C); & Bus Adm 360(P) or 361(P).
600 Management Analysis. 3 cr. U. Administrative processes under conditions of uncertainty including integrating analysis of policy determination at the overall management level. Capstone course in business administration. Prereq: sr st & admis to Bus Adm major; Bus Adm 302(202)(P) or 301(P); Bus Adm 330(P), 350(P), 360(P), & English 205(P).
## College of Letters and Science

### CHEM Chemistry and Biochemistry

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>100 (effective 09/02/2015)</strong> Chemical Science. 4 cr. U.</td>
<td>Introductory course in general inorganic chemistry designed for the student with little or no previous science training. 3 hrs lec, 1 hr dis.</td>
<td>Not open for cr to students who have cr in Chem 102. Prereq: a math placement score of 30 or a grade of C or better in Math 105(P) or 108(P).</td>
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<tr>
<td><strong>100 Chemical Science. 4 cr. U.</strong></td>
<td>Introductory course in general inorganic chemistry designed for the student with little or no previous science training. 3 hrs lec, 1 hr dis.</td>
<td>Not open for cr to students who have cr in Chem 102(ER), 111(ER), or 117(ER). Prereq: a math placement score of 30 or a grade of C or better in Math 105(P).</td>
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<tr>
<td><strong>101 (effective 09/02/2015)</strong> Chemical Science. 4 cr. U.</td>
<td>Introductory chemistry with an emphasis on organic chemistry and selected aspects of general chemistry. 3 hrs lec, 2 hrs lab, 1 hr dis.</td>
<td>Designed for students in nursing and related fields. Not open for cr to students who have cr in Chem 341 or 343; may not serve as prereq for Chem 341 or 343. Prereq: score of 1 on the chem placement test, &amp; a math placement score of 30 or a grade of C or better in Math 105(P) or 108(P); or a grade of C or better in Chem 100(P).</td>
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<tr>
<td><strong>101 Chemical Science. 4 cr. U.</strong></td>
<td>Introductory chemistry with an emphasis on organic chemistry and selected aspects of general chemistry. 3 hrs lec, 2 hrs lab, 1 hr dis.</td>
<td>Designed for students in nursing and related fields. Not open for cr to students who have cr in Chem 341 or 343; may not serve as prereq for Chem 341 or 343. Prereq: a suitable score on the chem placement test, &amp; a math placement score of 30 or a grade of C or better in Math 105(P); or a grade of C or better in Chem 100(P).</td>
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<tr>
<td><strong>102 General Chemistry. 5 cr. U.</strong></td>
<td>Introductory college chemistry. Modern fundamental principles of chemistry, with emphasis on the chemistry of nonmetals. 3 hrs lec, 3 hrs lab, 1 hr dis.</td>
<td>4 cr count as repeat of Chem 117. Not open to those w/cr in Chem 105(ER) or 111(ER). Prereq: 1 yr H.S. algebra, 1 yr H.S. chem, suitable score on chem placement test, &amp; math placement score 30 or min grade C in Math 105(P); or min grade C in Chem 100(P).</td>
<td></td>
</tr>
<tr>
<td><strong>102 (effective 09/02/2015) General Chemistry. 5 cr. U.</strong></td>
<td>Introductory college chemistry. Modern fundamental principles of chemistry, with emphasis on the chemistry of nonmetals. 3 hrs lec, 3 hrs lab, 1 hr dis.</td>
<td>Prereq: score of 1 on chem placement test, &amp; math placement score 30 or min grade C in Math 105(P) or 108(P); or min grade C in Chem 100(P).</td>
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<tr>
<td><strong>103 (effective 09/02/2015) Survey of Biochemistry. 4 cr. U.</strong></td>
<td>The nature of materials of biological systems. 3 hrs lec, 1 hr dis, 3 hrs lab.</td>
<td>Designed for students in nursing and related fields. Not open for cr to chem majors; may not serve as a</td>
<td></td>
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</table>
103 (201) Survey of Biochemistry. 4 cr. U. The nature of materials of biological systems. 3 hrs lec, 1 hr dis, 3 hrs lab. Designed for students in nursing and related fields. Not open for cr to chem majors or to students who have cr in Chem 341 or 343; may not serve as a prereq for Chem 341 or 343. Prereq: grade of C or better in Chem 101(P).

104 General Chemistry and Qualitative Analysis. 5 cr. U. Continuation of Chem 102. 3 hrs lec, 3 hrs lab, 1 hr dis. 4 of 5 cr count as repeat of Chem 118. Not open for cr to those w/cr in Chem 111(ER). Prereq: grade C or better in Chem 102(P).

105 (effective 09/02/2015) General Chemistry for Engineering. 5 cr. U. Modern principles of chemistry with emphasis on applications in engineering fields. Not open to those w/cr in Chem 104(ER). Not a prereq for Chem 221, 341, or 343. Prereq: score of 1 on chem placement test, math placement score 30 or min grade C in Math 105(P) or 108(P); or min grade C in Chem 100(P).

105 General Chemistry for Engineering. 5 cr. U. Modern principles of chemistry with emphasis on applications in engineering fields. Not open to those w/cr in Chem 104(ER) or 118(ER). Not a prereq for Chem 221, 223, 341, 343. Prereq: 1 yr H.S. chem, 1 yr H.S. algebra, suitable score on chem placement test, math placement score 30 or min grade C in Math 105(P); or min grade C in Chem 100(P).

106 Chemistry in the World Around Us--Chemistry for the Non-Science Major. 3 cr. U. An introduction to chemistry with an emphasis on outlining how chemistry affects our everyday lives. 3 hrs lec, 2 hrs lab/dis. Intended for non-science majors and minors; does not carry cr toward chem or biochem majors or chem minor. Not open for cr to students who have cr in Chem 100-120. Prereq: none.

106 (effective 09/02/2015) Chemistry in the World Around Us--Chemistry for the Non-Science Major. 3 cr. U. An introduction to chemistry with an emphasis on outlining how chemistry affects our everyday lives. 3 hrs lec, 2 hrs lab/dis. Intended for non-science majors and minors; does not carry cr toward chem or biochem majors or chem minor. Prereq: none.

185 (effective 09/02/2015) Basic Chemistry for Teachers. 3 cr. U. Chemical models, atoms, and molecules; properties of elements; useful chemical reactions; application to elementary education classrooms. 2 hrs lec; 2 hrs lab/dis. Prereq: Math 176(P) or cons instr.

185 Basic Chemistry for Teachers. 3 cr. U. Chemistry in the scheme of things; chemical models, atoms and molecules; properties of elements; useful chemical reactions. 2 hrs lec; 2 hrs lab/dis. Not open for cr to students who have cr in Chem courses 100-120. Prereq: Math 176(P) or cons instr.

194 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

221 Elementary Quantitative Analysis. 4 cr. U. Introduction to modern chemical analysis, including volumetric, gravimetric, electrochemical, and chromatographic methods. 2 hrs lec, 6 hrs lab. Prereq: a grade of C or better in Chem 104(P).

281 Dead Men Do Tell Tales: An Introduction to Forensic Science. 3 cr. U. A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated. Jointly offered with & counts as repeat of Anthro/BMS(C L Sci)/Crm Jst 281. Prereq: none.

285 Medicolegal Death Investigation. 3 cr. U. Lectures on the fundamentals of death investigation as outlined by
289 Internship in Chemistry, Lower Division. 1-6 cr. U. Application of basic principles of chemistry in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in chem; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

311 Introduction to Inorganic Chemistry. 3 cr. U. Inorganic chemistry; solid state chemistry, coordination chemistry, main-group chemistry. Prereq: grade of C or better in Chem 104(P).

341 Introductory Survey of Organic Chemistry. 3 cr. U. Intended for students who expect to take only one semester of organic chemistry. Not open for cr to students who have credit in Chem 343. Prereq: grade of C or better in Chem 104(P); conc reg in Chem 342(R).

342 Introductory Organic Chemistry Laboratory. 2 cr. U. 6 hrs lab. Prereq: a grade of C or better in Chem 104(P); conc reg in 341(R).

343 Organic Chemistry. 3 cr. U. For students who intend to take more than one semester of organic chemistry. Not open for cr to students who have credit in Chem 341. Prereq: grade of C or better in Chem 104(P).

344 Organic Chemistry Laboratory. 2 cr. U. 6 hr lab. Not open for cr to students who have credit in Chem 342. Prereq: grade C or better Chem 343(P); conc reg Chem 345(R).

345 Organic Chemistry. 3 cr. U. Continuation of Chem 343. Prereq: grade of C or better in Chem 343(P); conc reg Chem 344(R).

381 Honors Seminar: (Subtitled). 3H cr. U. Discussion of aspects of the relationship of chemistry and society. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir; add'l prereq possible depending on specific topic.

399 Special Chemical Problems: (Subtitled). 1-4 cr. U. Directed study or research on topics selected by the instructor. Retakable to 7 cr max. Prereq: Chem 104(P); cons instr.

481 Criminalistics. 3 cr. U. Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony. Anthro 481, Chem 481, BMS(C L Sci) 481, & Crm Jst 481 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/C L Sci/Crm Jst 281(P); Crm Jst 480(P).

489 Internship in Chemistry, Upper Division. 1-6 cr. U. Application of advanced principles of chemistry in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Chem; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.
499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st.

501 Introduction to Biochemistry. 3 cr. U/G. The chemistry of biological systems. Does not count toward graduate degree in chemistry. Prereq: jr st; grade of C or better in Chem 341(P) or 345(P).

502 Development of Modern Chemistry. 2 cr. U/G. Traces the development of chemistry from ancient to modern times. Prereq: jr st; a grade of C or better in Chem 221(P) or 223(P), & Chem 341(P) or 343(P).

511 Inorganic Chemistry. 3 cr. U/G. Introduction to theoretical principles and descriptive chemistry of the elements. Does not count toward graduate degree in Chemistry. Prereq: jr st & grade of C or better in Chem 562(P); or grad st.

524 Instrumental Analysis. 3 cr. U/G. Chemical equilibria, separations, and theory and practice of instrumental measurements. Does not count toward a graduate degree in chemistry. Prereq: jr st; grade of C or better in Chem 221(P) or 223(P).

537 (effective 09/02/2015) Industrial Microbiology and Biochemistry Laboratory. 2 cr. U/G. Experiments using industrial fermentation approaches for isolation of biologically-relevant molecules, e.g., antibiotics; analysis of their function and activity using microbiological and biochemical techniques. Bio Sci 537 & Chem 537 are jointly offered; they count as repeats of one another. Prereq: Bio Sci 383(P) & Chem 501(P).

541 Bioprocess Chemical Engineering. 3 cr. U. Technical aspects of biotechnology and fermentation based on reactor design and function. Prereq: jr st; grade of C or better in Chem 501(P).

560 Biophysical Chemistry. 3 cr. U/G. General course designed for majors in fields other than chemistry. Does not count toward a graduate degree in chemistry. Prereq: jr st; grade of C or better in Chem 104(P); Math 211(P) or equiv.

561 Physical Chemistry I. 3 cr. U/G. Primary focus on chemical thermodynamics. Does not count toward a graduate degree in chemistry. Prereq: jr st; grades of C or better in Chem 104(P), Physics 210(P) & 215(P), & Math 233(P); ElecEng 234(R) or Math 234(R).

562 Physical Chemistry II. 3 cr. U/G. Continuation of Chem 561; course content is largely kinetics, statistical mechanics, and quantum chemistry. Does not count toward a graduate degree in chemistry. Prereq: jr st; grade of C or better in Chem 561(P).

563 Physical Chemistry Laboratory. 1-2 cr. U/G. Carries grad cr for students other than chem students. Prereq: jr st & grade of C or better in Chem 221(P) or 223(P) & Chem 561(P).

582 Advanced Chemistry Laboratory I. 2 cr. U. Modern advanced chemical synthesis techniques. Prereq: grade of C or better in Chem 344(P).

584 Advanced Chemistry Laboratory II. 2 cr. U. Advanced laboratory for analysis and characterization of chemical compounds. Prereq: grade of C or better in Chem 344(P), 524(P), & 563(P).

585 Internship in Forensic Toxicology. 1-3 cr. U. Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist. Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

589 Internship in Death Investigation. 1-3 cr. U. Practical experience in death investigation under the supervision of a death investigator and forensic pathologist. Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 589 are jointly
offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.

594 Internship in Forensic Science. 1-3 cr. U. On-site shadowing of evidence analyst at State Crime Laboratory.|Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

599 Special Projects in Chemistry. 3-5 cr. U/G. Directed study or research on subjects selected by the instructor. For further information consult dept chair.|Retakable to 7 cr max. Does not count toward a graduate degree in chemistry. Prereq: jr st; cons instr.

601 Biochemistry: Protein Structure and Function. 3 cr. U/G. Cellular synthesis of proteins, protein structure/function, enzyme mechanisms.|Prereq: jr st; grades of C or better in Chem 345(P), 501(P), & either 560(C) or 562(C).

602 Biochemistry: Cellular Processes. 3 cr. U/G. Biosynthesis and metabolism of nucleic acids, structure and replication of DNA, control of gene expression, signal transduction.|Prereq: jr st; grade of C or better in Chem 501(P) or cons instr.

603 Introduction to Biochemistry Laboratory. 2 cr. U/G. Experiments in biological preparations, colorimetry, chromatography, and radioisotope techniques.|Prereq: jr st; grades of C or better in Chem 221(P) or 223(P) & in Chem 501(P).

604 Biochemistry: Metabolism. 3 cr. U/G. Glycolysis, photosynthesis, biosynthesis, metabolism.|Prereq: jr st; grade of C or better in Chem 501(P) or cons instr.

611 Physical Inorganic Chemistry. 3 cr. U/G. Physical and theoretical aspects of inorganic chemistry (spectroscopy, crystallography, kinetic and theoretical methods) are discussed.|Prereq: Chem 511(P) or cons instr.

612 Transition Metal and Organometallic Chemistry. 3 cr. U/G. Advanced survey of elements, emphasizing transition elements and organometallic species. Main group organometallics and actinides and lanthanides briefly discussed.|Prereq: Chem 511(P) or cons instr.

613 Main Group Chemistry. 3 cr. U/G. Advanced survey of metallic and non-metallic main group elements.|Prereq: jr st & grade of C or better in Chem 511(P); or grad st.

614 Bio-Inorganic Chemistry. 3 cr. U/G. Inorganic chemistry for biological systems; metalloproteins; coordination chemistry in enzymes.|Prereq: jr st; grade of C or better in Chem 511(P).

630 Computational Chemistry. 3 cr. U/G. Computer modeling techniques for molecular systems.|Prereq: jr st; grade of C or better in Chem 562(P) or cons instr.


647 Physical Methods of Organic Chemistry. 3 cr. U/G. Application of modern instrumental methods to the separation, analysis, and identification of organic compounds.|Prereq: jr st, a grade of C or better in Chem 345(P), 346(P), 524(P).


662 Chemical Kinetics and Dynamics. 3 cr. U/G. Present understanding of reaction kinetics and dynamics. Topics
range from experimental methods for kinetics measurements to microscopic theories of reaction rates. Prereq: sr st; grade of C or better in Chem 562(P).

691 Senior Research. 1-4 cr. U. Introduction to chemical research. Independent and original study done under the direction of a staff member; communication of results. Recom for Chem majors. Chem 691 & 692 retakable to combined 6 cr max. Prereq: sr st; cons instr.

692 Senior Thesis. 2-6 cr. U. Introduction to chemical research. Independent and original study done under the direction of a staff member. Recom for chem majors. Chem 691 & 692 retakable to combined 6 cr max. Prereq: sr st; grade of C or better in English 102(P) or score at level 4 on EPT; cons instr.

697 Senior Seminar. 1 cr. U. Prereq: sr st.
150 Builders for Civilization and Environment. 3 cr. U. Explores the role of civil engineering in society through the use of case studies, including water and society, bridges, building and transportation.|Prereq: none.

201 Statics. 3 cr. U. Principles of mechanics force systems, equilibrium structures, distributed forces, centroids and friction.|Prereq: Math 232(P).

202 Dynamics. 3 cr. U. Kinematics and kinetics of particles and rigid bodies with applications of Newton's second law and the principles of work-energy and impulse momentum.|Prereq: Civ Eng 201(P), Math 233(C).

250 Engineering Surveying. 3 cr. U. Horizontal and vertical distance measurement, angles and direction, traverses, errors, control and construction surveys, coordinate systems, land records, and coordinate geometry. Office and field practice.|Prereq: soph st, Math 232(P).

280 Computer Based Engineering Analysis. 3 cr. U. Computer based methods for analysis of data and relationships in engineering practice. Data reliability, experimental design, statistical significance, database systems, curve fitting, interpretation of relationships.|Prereq: CompSci 132(P) or one sem H.S. programming; & Math 231(P) or 226(P).

303 Strength of Materials. 4 cr. U. Stress and strain, torsion, bending of beams, shearing stress in beams, combined stresses, principal stresses, deflections of beams, statically indeterminate members and columns. Lec & lab.|Prereq: Civ Eng 201(P) & Math 233(C).

335 Soil Mechanics. 3 cr. U. Fundamentals of soil mechanics; soil classification; seepage analysis; principle of effective stress; stress distribution; 1-D consolidation theory; shear strength ; laboratory experience.|Prereq: jr & admis to an Eng major or grad st; Civ Eng 303(P).

360 Introduction to Structural Analysis. 3 cr. U. Elementary structural analysis techniques; beams, trusses, statically determinate frames, influence lines; analysis of indeterminate structures by superposition and computer analysis.|Prereq: Civ Eng 303(P).

372 Introduction to Structural Design. 4 cr. U. Intro to design of reinforced concrete, steel, and wood structures; material properties; codes; design for flexure, shear and axial loads; connections.|Prereq: jr st; Civ Eng 303(P).
401 Intermediate Strength of Materials. 3 cr. U/G. Area moment, conjugate beam, deflection due to shear, bending of unsymmetrical beams, curved beams, shear flow, shear center, stresses in open sections, theories of failure, plastic stress-strain relations, plastic deformation, limit analysis, energy methods, laboratory investigation. Prereq: jr st, Civ Eng 303(P).

411 Engineering Principles of Water Resources Design. 3 cr. U/G. Principles of hydraulics; steady and non-steady flow in closed conduits and open channels; hydraulic design of structures, surge tanks; hydraulic model studies. Prereq: jr st & admis to an Eng major or grad st; MechEng 320(P).


413 Environmental Engineering. 3 cr. U/G. Water pollution and control; hazardous substances and risk assessment; water and wastewater treatment systems; air-pollution and emission control; solid wastes; design of treatment facilities. Prereq: jr st & admis to an Eng major or grad st; MechEng 320(P).

431 (331) Materials of Construction. 3 cr. U/G. Investigation covering engineering properties of metals, timber, concrete, masonry, plain and reinforced plastics, glues; thermal effects. Prereq: jr st; Civ Eng 303(P).

456 Foundation Engineering. 3 cr. U/G. Site investigation; foundation bearing capacity and settlement; design of spread and combined footings; lateral earth pressures; retaining wall design; slope stability analysis; pile foundations. Prereq: jr st; Civ Eng 335(P).

463 Introduction to Finite Elements. 3 cr. U/G. Generation and assembly of finite element matrices in one- and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow. Not open to students with cr in MechEng 463, which is identical to Civ Eng 463. Prereq: jr st; ElecEng 234(P), Civ Eng 303(P), MechEng 320(C), 311(C) or 321(C).


469 Introduction to Biomechanical Engineering. 3 cr. U/G. Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine. MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another. Prereq: Civ Eng 202(P) & 303 (P); or cons instr.

490 Transportation Engineering. 3 cr. U/G. Technological and common elements of all modes of transportation; their effect on performance, demand, and outputs of a transportation system. Development of new transportation systems. Prereq: jr st & admis to an Eng major; Civ Eng 280(P); or grad st.

492 Environmental Impact Assessment. 3 cr. U/G. Study and evaluation of the impacts of large scale projects on the quality of the environment with emphasis on the assessment of physical and community impacts. Impact statement preparation. Prereq: sr st.

494 Principles of Civil Engineering Design. 1 cr. U. Project identification and planning for senior design project; proposals, project management and team procedures. Technical communications. Professional engineering responsibilities. Intended for first semester seniors. Prereq: sr st in Civ Eng: Civ Eng 335(C), 372(C), 411(C), 413(C), & 490(C).

495 Senior Design. 3 cr. U. Team design project involving application of fundamental civil engineering concepts. Discussion of specifications, contracts and implementation. Written and oral presentations. Intended for second
semester seniors. | Prereq: Civ Eng 335(P), 372(P), 411(P), 413(P), 490(P), 494(P) or cons instr.

499 Ad Hoc: 1-12 cr. U. -

502 Experimental Stress Analysis. 3 cr. U/G. Basic stress strain relations; demonstration of experimental methods of determining stresses and strains; use of mechanical strain, electric strain, and strain gages, optical photoelastic equipment, brittle lacquers, models. | Prereq: jr st & Civ Eng 303(P).


521 Water Quality Assessment. 3 cr. U/G. Laboratory techniques for detecting and measuring physical, chemical and biological characteristics of water and wastewater. Water quality requirements. Design of sampling programs. | Prereq: sr st; Civ Eng 411(P).

560 Intermediate Structural Analysis. 3 cr. U/G. Topics in traditional analysis methods; indeterminate structures, load & load paths, moment distribution, approximate methods, elementary plate analysis. | Prereq: jr st; Civ Eng 360(P), 372(P).

571 Design of Concrete Structures. 3 cr. U/G. Topics in reinforced concrete design; indeterminate reinforced concrete beams and frames; length effect in columns; torsion; two way floor systems; yield line theory. | Prereq: jr st; Civ Eng 360(P), 372(P).

572 Design of Steel Structures. 3 cr. U/G. Topics in design of steel structures; tension, compression, and beam members; combined axial and bending; connections; moment resisting frames; serviceability; composite construction, maintenance. | Prereq: jr st; Civ Eng 360(P), 372(P).

573 Design of Masonry Structures. 3 cr. U/G. Topics in design of masonry structures; materials, loads, design codes, reinforced & unreinforced axial & flexural members, composite & cavity walls, shear walls, seismic requirements. | Prereq: jr st; Civ Eng 360(P), 372(P).

574 Design of Prestressed Concrete Structures. 3 cr. U/G. Design of prestressed concrete structures; methods of prestressing; loss of prestress; design for flexure, shear, torsion; camber and deflections; continuity; connections; fire rating; circular prestressing. | Prereq: jr st; Civ Eng 360(P), 372(P).

578 Design of Wood Structures. 3 cr. U/G. Design of timber structures; properties of wood; design for bending, shear, and combined bending and axial load; connections; laminated sections; rigid frames and arches. | Prereq: jr st; Civ Eng 360(P).

579 Earthquake Engineering. 3 cr. U/G. Earthquake mechanics and effects, structural dynamics, seismic hazard analysis, design guidelines, design of steel and concrete buildings for earthquake loads. | Counts as repeat of Civ Eng 891 w/same subtitle. Prereq: sr st; Civ Eng 571(P) or 572(P); or cons instr; or grad st.

580 Engineering Analysis in Applied Mechanics. 3 cr. U/G. Engineering analysis of initial and boundary value problems in applied mechanics. Application of various methods to investigate a variety of engineering situations. | Not open to students with cr in MechEng 580, which is identical to Civ Eng 580. Prereq: jr st; ElecEng 234(P).

590 Urban Transportation Planning. 3 cr. U/G. Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, factors underlying the choice of mode, traffic assignment, modeling and evaluation techniques. | Prereq: sr st.

592 Traffic Control. 3 cr. U/G. Control of transportation systems with emphasis on traffic engineering principles. Data
collection, capacity analysis, traffic improvements, signalization, signs and markings, channelization, intersection, speeds and safety considerations.|Prereq: sr st.

594 Physical Planning and Municipal Engineering. 3 cr. U/G. Organization and structure of local government, zoning and planning, subdivision layout, street design, transit service, urban drainage, storm and sanitary sewer, water supply and other public works activities.|Prereq: sr st.

596 Transportation Facilities Design. 3 cr. U/G. Physical design of transportation facilities including geometric design and terminals for highway, rail, air and water transportation. Student project work will be required.|Prereq: jr st; Civ Eng 490(P).

598 Pavement Analysis and Design. 3 cr. U/G. Pavement types, design factors, traffic loading and volume, materials characterization, drainage design, flexible and rigid pavements design, stresses and deflections, overlay design, pavement rehabilitation.|Prereq: jr st & Civ Eng 335(P); or grad st.


614 Hazardous Waste Management. 3 cr. U/G. Hazardous waste; regulatory process; fate and transport of contaminants; treatment and disposal methods; site remediation; quantitative risk assessment; design project.|Prereq: jr st; Civ Eng 413(P).

616 Computational Hydraulics and Environmental Flows. 3 cr. U/G. Numerical analysis applied to fluid flows and transport phenomena. Applications in environmental flows, water quality models, transport of pollutant, long wave propagation, etc.|Counts as repeat of Civ Eng 691 w/same topic. Prereq: jr sr, Civ Eng 411(P).

691 Topics in Civil Engineering: (Subtitled). 1-3 cr. U/G. Topics vary. Study of topics in theory and practice of civil engineering. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time the course is offered.|Retakeable for max of 6 cr. Prereq: jr st.

699 Independent Study. 1-3 cr. U/G. |May be retaken to max of 6 cr toward the undergraduate degree. Prereq: jr st; cons instr.

This course information produced at 01:00 on 07/30/2015.
101 Latin and Greek in English Words. 3 cr. U. A comprehensive study of the basic Greek and Latin word elements underlying modern English usage and their Indo-European background. Not recom for ESL students. Prereq: none.

170 Classical Mythology. 3 cr. U. A survey of Classical myths in the written sources and in artistic representations. Prereq: none.

171 Classical Mythology: An Audio-Visual Supplement. 1 cr. U. Slide series depicting the influence of classical myth on art and music reinforcing the material presented in Classic 170. Not open for cr to students who have earned 3 or more cr in Classic 170(ER). Prereq: Classic 170(C).

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

201 Introduction to Greek Life and Literature. 3 cr. U. Ancient Greek life and literature, emphasizing the surviving works of earliest authors, Homer and Hesiod. Prereq: none; Classic 170(R).

202 Introduction to Roman Life and Literature. 3 cr. U. Roman life and literature, emphasizing events before the death of Augustus. Prereq: none; Classic 170(R).

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. Jointly offered with, and may be used to repeat, English 213, French 213, German 213, Italian 213, Linguis 213, Polish 213, Russian 213, & Spanish 213. Prereq: none.

274 (Hebr St 274) Ancient Egyptian Civilization. 3 cr. U. Culture of Egypt, with particular attention to its literature reflecting social, political, and religious conditions; emphasis on Egyptian-Hebrew contacts during the second millennium. Classic (Hebr St) 274 & Hist 274 are jointly offered; they count as repeats of one another. Prereq: none.

289 Internship in Classics, Lower Division. 1-6 cr. U. Application of basic principles of Classics in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Classics; 2.25 gpa; cons supervising faculty member.
296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 The Life and Literature of Classical Athens: Herodotus and Dramatists. 3 cr. U. Classical Greek drama and the writings of Herodotus in translation; their historical background. Prereq: jr st; Classic 201(R); grade of C or better in English 102(P) or score level 4 on EPT.

302 War and Politics in Ancient Greece. 3 cr. U. Thucydides' history and selections from Plato's works in translation; their historical background. Prereq: jr st; Classic 301(R); grade of C or better in English 102(P) or score of 637 at level 4 on EPT.

303 The Life and Literature of the Roman Empire. 3 cr. U. Major literary works from the early Roman empire in translation; their historical background. Prereq: jr st; Classic 170(R) & 202(R).

304 The Graeco-Roman World: (Subtitled). 3 cr. U/G. Life and literature (in translation) of the ancient Greco-Roman world. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Classic 301(R), 302(R), or 303(R).


390 Egyptian Mythology. 3 cr. U. Egyptian myths and ancient religious practices, emphasizing religious thought in Greco-Roman Egypt. Prereq: jr st.

489 Internship in Classics, Upper Division. 1-6 cr. U. Application of advanced principles of classics in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Classic; 2.25 GPA; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st. Add'l prereqs may be assigned to specific topic.

699 Directed Reading. 1-3 cr. U. Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord. Retakable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.
COMMUN Communication

101 Introduction to Interpersonal Communication. 3 cr. U. Basic concepts for understanding communication in interpersonal relationships. Combines a theoretical approach with a skills approach to the study of interpersonal communication. Prereq: none.

103 Public Speaking. 3 cr. U. Principles of public address in informative, persuasive and special occasion situations with emphasis on the theory, composition, and presentation of speeches. Prereq: none.

105 Business and Professional Communication. 3 cr. U. Analysis and application of communication principles and practices (interpersonal communication, teamwork issues, public speaking, technological communication) fundamental to successful participation in organizational and professional activities. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent study under the supervision of an appropriate faculty or staff member. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept, & assoc dean for SAS.

200 Introduction to Communication Research. 3 cr. U. The purposes and basic processes of communication. Prereq: none.

260 Elements of Human Communication Theory. 3 cr. U. Theory and research in fundamental concepts, antecedents, consequences, and effects of human communication; emphasis on range of approaches to the study of human communication. Prereq: soph st; Commun 101(P).

264 Persuasive Speaking. 3 cr. U. Designed specifically to increase students' understanding of and proficiency in various techniques and modes of persuasive speaking. Prereq: Commun 103(P).

288 Research Practicum. 1-3 cr. U. Research experience under the supervision of a member of the Commun faculty. Offered as cr/no cr only. Retakable to 6 cr max, w/3 cr max from any one faculty member. Prereq: Commun 200(P); 3.00 overall gpa; satisfaction of GER English Composition competency req; writ cons instr.
296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable with change in topic. Prereq: acceptance for Study Abroad Prog.

298 Internship in Communication. 1-3 cr. U. Field experience in profit/nonprofit organization; course examines professional communication issues. Retakable to 6 cr max. Offered as cr/no cr only. Prereq: 2.0 gpa overall; writ cons internship dir.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

300 Interviewers and Interviewing. 3 cr. U. Focuses on information-getting interviews. Discussion, practice, and analysis of interviewer effects, setting, question form, sequence, and wording. Prereq: jr st; satisfaction of English Composition competency req.

301 Interpersonal Communication Processes. 3 cr. U. Focused analysis of the processes involved in face to face communication, includes the examination of the communication variables which define, sustain, or change interpersonal relationships. Prereq: jr st; Commun 101(P); satisfaction of GER English Composition competency req.

310 Communication in Organizations. 3 cr. U. Factors affecting structure and function of communication in organizations. Emphasis on concepts and principles enhancing effective management of communication processes. Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

313 Human Communication and Technology. 3 cr. U. Examination of the actual and potential role of technology in facilitating satisfying communication relationships. Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

320 Nonverbal Communication. 3 cr. U. Reviews theory and research in nonverbal aspects of human communication. Consideration of specific research in such areas as proxemics, kinesics, paralanguage, interpretation of nonverbal messages. Prereq: jr st; satisfaction of GER English Composition competency req.

323 Communication in Groups and Teams. 3 cr. U. Analysis of communication processes in groups and teams; includes examination of theories and research findings; addresses group and team participation and decision-making skills. Prereq: jr st; Commun 105(P); satisfaction of GER English Composition competency req; or cons instr.

327 Instructional Communication for Human Resource Trainers. 3 cr. U. Theory and practice of instructional communication methods used to train employees of profit and nonprofit organizations. Prereq: jr st; Commun 103(P) or 105(P); satisfaction of GER English Composition competency req.

335 Critical Analysis of Communication. 3 cr. U. Nature, development, and applications of criticism, with major emphasis on contemporary communication situations. Prereq: jr st; satisfaction of Oral and Written Communication Part A GER.

350 Intercultural Communication. 3 cr. U. Overview of U.S. intercultural communication, including communication issues for interracial and interethnic communication. Prereq: jr st; satisfaction of GER English Composition competency req.

362 Argumentation and Debate. 3 cr. U. The theory and practice of argumentation with emphasis on critical thinking,
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>363</td>
<td>Communication in Human Conflict. 3 cr. U.</td>
<td>3</td>
<td>Investigation of the relationship between communication and the processes of human conflicts. Focus upon the nature and origin of human conflict and communicative strategies which may be used to manage conflict situations.</td>
<td>Prereq: jr st; Commun 101(P); satisfaction of GER English Composition competency req.</td>
</tr>
<tr>
<td>365 (520)</td>
<td>Negotiation Skills Workshop. 3 cr. U.</td>
<td>3</td>
<td>Simulation-based, interactive workshop on improving student's understanding of the negotiation process; building communicative effectiveness as a negotiator in various business and personal contexts.</td>
<td>Prereq: jr st; satisfaction of GER English Composition competency req.</td>
</tr>
<tr>
<td>372</td>
<td>Qualitative Research in Communication. 3 cr. U.</td>
<td>3</td>
<td>Concepts, strategies, and methods in the qualitative, social-scientific study of human communication. Emphasis on interviews, focus groups, and participant observation.</td>
<td>Prereq: jr st; satisfaction of Oral &amp; Written Communication Part B GER.</td>
</tr>
<tr>
<td>380</td>
<td>Honors Seminar: (Subtitled). 3H cr. U.</td>
<td></td>
<td>Topics related to current social problems and communication. Retakable w/chg in topic to 9 cr max.</td>
<td>Prereq: soph st; Honors 200(P); cons Honors College dir.</td>
</tr>
<tr>
<td>381</td>
<td>Health Communication. 3 cr. U.</td>
<td>3</td>
<td>Theory and process of health communication at multiple levels: individual, social network, organizational, community, and societal. Current research in health communication.</td>
<td>Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.</td>
</tr>
<tr>
<td>401</td>
<td>Communication in Marital and Family Relationships. 3 cr. U.</td>
<td>3</td>
<td>Social scientific approach to the study of communication in marital/family relationships. Examination of theory and research concerning communication processes in marital/family relationships.</td>
<td>Prereq: jr st; Commun 101(P); satisfaction of GER English Composition competency req.</td>
</tr>
<tr>
<td>402</td>
<td>Gender and Communication. 3 cr. U.</td>
<td>3</td>
<td>Course focuses on interactive relationships between gender, communication, and culture; in particular, the ways in which communication creates and perpetuates gendered identities and gendered interaction.</td>
<td>Prereq: jr st; satisfaction of GER English Composition competency req.</td>
</tr>
<tr>
<td>402 (effective 09/02/2015)</td>
<td>Gender and Communication. 3 cr. U.</td>
<td>3</td>
<td>Course focuses on interactive relationships between gender, communication, and culture; in particular, the ways in which communication creates and perpetuates gendered identities and gendered interaction.</td>
<td>Prereq: jr st; satisfaction of GER English Composition competency req.</td>
</tr>
<tr>
<td>410</td>
<td>Organizational Communication Technology. 3 cr. U.</td>
<td>3</td>
<td>Conceptual and analytical consideration of communication consequences and needs related to technological assimilation and designing work environments.</td>
<td>Prereq: jr st; satisfaction of GER English Composition competency req.</td>
</tr>
<tr>
<td>413</td>
<td>Rhetoric and the Internet. 3 cr. U.</td>
<td>3</td>
<td>Critical exploration and analysis of the internet as a communication phenomenon.</td>
<td>Prereq: jr st; satisfaction of GER English Composition competency req.</td>
</tr>
<tr>
<td>423</td>
<td>Decision-Making and Creativity. 3 cr. U.</td>
<td>3</td>
<td>Key issues in decision making and creativity at various organizational levels and across different decision making domains.</td>
<td>Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.</td>
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<tr>
<td>435</td>
<td>Rhetoric in Western Thought. 3 cr. U.</td>
<td>3</td>
<td>A survey of rhetorical theory in western thinking since ancient Greece.</td>
<td>Prereq: jr st; Commun 103(P); satisfaction of GER English Composition competency req.</td>
</tr>
</tbody>
</table>
436 Recent Rhetorical Theory. 3 cr. U. Recent American and European theories of rhetoric as a dimension of human communication. Prereq: jr st; Commun 103(P); satisfaction of GER English Composition competency req.


450 Cross-Cultural Communication. 3 cr. U. Theories, research methods, and communication issues in cross-cultural, international interactions. Prereq: jr st; satisfaction of GER English Composition competency req.

462 Communication in the Legal Process. 3 cr. U. Theory and research in argumentation and persuasion and application in the legal process. Prereq: jr st; Commun 103(P) or 362(262)(P); satisfaction of GER English Composition competency req.


472 Rhetoric of Radicalism in the United States. 3 cr. U. Rhetoric of radical movements in the United States including the American Revolution, the abolitionist and free love movements, Black Nationalism, women's liberation, and contemporary radical movements. Counts as repeat of Commun 651 w/similar topic. Prereq: jr st.


481 Interpersonal Issues in Health Communication. 3 cr. U. Theory and practice of health communication at the interpersonal level, including such topics as personal relationships, provider-patient interaction, technology, and interpersonal education and prevention. Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req; add'l prereqs may be assigned to specific topic.

510 Organizational Communication Analysis. 3 cr. U. Theories, strategies and methods used in diagnosing, analyzing, and assessing employee communication behaviors and attitudes in organizations. Prereq: jr st; 9 crs Commun 300-level or above; declared Commun or BAOA major; satisfaction of GER English Composition competency req; or cons instr.

550 International and Global Communication. 3 cr. U/G. Models, theories, and contexts of relational communication between people from different nation states, viewed from interpersonal, small group, organizational, and rhetorical perspectives. Prereq: jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.

588 (599) Research Practicum. 1-3 cr. U. Advanced research experience under the supervision of a member of the Commn faculty. Offered as cr/no cr only. Retakable to 6 cr max, w/3 cr max from any one faculty member. Prereq: jr st; commun major or minor; 3.00 overall gpa; Commun 200(P), 335(P), or 370(P); satisfaction of GER English Composition competency req; writ cons instr.

597 Practicum in Teaching Communication. 1-3 cr. U. Retakable to 6 cr max, with max of 3 cr from any one faculty member. Prereq: jr st; declared commun major or minor; 3.00 gpa in Commun; satisfaction of GER English Composition competency req; writ cons instr.

627 Designing and Developing Communication Courses and Programs. 3 cr. U/G. Theory/methods in designing/developing communication courses/programs for academic (college)/organizational (training) environments. Students design/develop instructional materials for online and/or onsite delivery. Prereq: jr st; 9 cr Commun 300-level or above; declared Commn or BAOA major; satisfaction of GER English Composition competency req; or cons instr.

631 Current Topics in Interpersonal Communication/Conflict Management: (Subtitled). 3 cr. U. Research-oriented approaches to interpersonal communication/conflict management. Specific topics announced in Schedule of Classes when course is offered. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

641 Current Topics in Organizational/Professional Communication: (Subtitled). 3 cr. U. Research-oriented approaches to organizational/professional communication. Specific topics announced Schedule of Classes when course is offered. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

651 Current Topics in Rhetorical/Public Communication: (Subtitled). 3 cr. U. Research-oriented approaches to rhetorical/public communication. Specific topics announced in Schedule of Classes when course is offered. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

655 Cultural Training and Adjustment. 3 cr. U/G. Theories and research related to the role of communication in cultural adjustment processes, cultural training, and evaluation of training. Prereq: jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.

660 Communication Capstone Seminar: (Subtitled). 3 cr. U. Applying theory and principles from across the major to a focused learning experience. May not be retaken for cr, but may be repeated for higher grade. Prereq: sr st; 9 crs Commun 300-level or above; declared Commun major; satisfaction of GER English Composition competency req; or cons instr.

662 Seminar in Communication: (Subtitled). 3 cr. U. Taught in seminar format. May not be retaken for cr, but may be repeated for higher grade. Prereq: sr st; 9 crs Commun 300-level or above; declared Commun major; satisfaction of GER English Composition competency req; or cons instr.

665 Introduction to Mediation. 3 cr. U/G. Course focuses on learning about the mediation process, related theories, and its application in a variety of contexts. Students receive twenty hours of mediation training. Prereq: jr st; satisfaction of GER English Composition competency req.


672 Communication and Social Order. 3 cr. U/G. The role of communication in both maintaining and challenging social structures and hierarchies. Prereq: jr st; satisfaction of GER English Composition competency req.

675 Communication in International Mediation and Peacebuilding. 3 cr. U/G. The various forms of international mediatory activity employed to bring sustainable peace to areas gripped by ethnic and social conflict. Prereq: jr st; satisfaction of GER English Composition competency req; or cons instr.

697 Organizational Administration Capstone. 3 cr. U. Internship, case analysis, or independent study that synthesizes course work in graded paper. Commun 697, Econ 697, & Sociol 697 are jointly offered; they count as repeats of one another. Prereq: sr st; declared org adm major; satisfaction of GER English Composition competency req; cons instr.

698 Internship in Communication. 3 cr. U. Field experience in a profit/nonprofit organization; course examines professional communication issues. Retakable with change in organization to 6 cr max. Prereq: jr st; declared Commun major or approved program of study; 9 cr Commun 300-level or above; 2.5 overall gpa; satisfaction of GER English Composition and Math competency reqs; writ cons internship dir.

699 Advanced Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a Commun faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept dir of undergrad stds. Retakable w/chg in topic. Prereq: jr st; 2.5 gpa; satisfaction of GER English Composition competency req; writ cons instr, dept chair, & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.
BMS Biomedical Sciences

101 Introduction to Clinical Laboratory Sciences. 2 cr. U. Lecture and laboratory instruction to introduce the student to the profession of clinical laboratory sciences with special emphasis in medical technology and cytotechnology. Prereq: none.

201 Sexually Transmitted Diseases and AIDS. 3 cr. U. Introductory course examining epidemiology, physiology, and microbiology of sexually transmitted infectious diseases. Information on reproductive physiology, pathophysiology and clinical disease, prevention and current treatment strategies. Prereq: none.

204 Plagues, Pandemics, and Epidemics. 3 cr. U. Basic principles and concepts of infectious diseases recognized to be of major worldwide importance in terms of mortality and morbidity. Prereq: none.

205 Introduction to Diagnostic Medicine. 3 cr. U. This course will provide a framework for understanding medical diagnostic tests in terms of procedures, risks, interpretation of results and relevant science behind the tests. Counts as repeat of BMS 205X. Prereq: none.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity. BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.
260 Introduction to Complementary and Alternative Medicine. 3 cr. U. Introduction to the predominant complementary and alternative health care traditions and therapies used today. BMS(C L Sci) 260 & Kin(HMS) 260 are jointly offered; they count as repeats of one another. Counts as repeat of BMS 260. Prereq: none.

260 Introduction to Complementary and Alternative Medicine. 3 cr. U. Introduction to the predominant complementary and alternative health care traditions and therapies used today. BMS(C L Sci) 260 & Kin(HMS) 260 are jointly offered; they count as repeats of one another. Counts as repeat of BMS 260X. Prereq: none.

281 Dead Men Do Tell Tales: An Introduction to Forensic Science. 3 cr. U. A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated. Jointly-offered with & counts as repeat of Anthro/Chem/Crm Jst 281. Prereq: none.


290 Topics in Health Sciences: (Subtitled). 1-3 cr. U. Topics of current interest in the field of health sciences. May be repeated with change in topic. Prereq: specified in sem schedule whenever req'd for a topic.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable with change in topic. Prereq: acceptance to Study Abroad Prog.

301 (HS 301) Human Pathophysiology: Fundamentals. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cell injury, inflammation, immunopathology, repair, regeneration and fibrosis. Prereq: Bio Sci 203(P) or cons instr.

301 Human Pathophysiology: Fundamentals. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cell injury, inflammation, immunopathology, repair, regeneration, and fibrosis.

302 (HS 302) Human Pathophysiology: Organ Systems I. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover developmental and genetic disorders, neoplasms, nervous system, bones, joints, skeletal muscle. Prereq: BMS(C L Sci / HS) 301(C) or cons instr.

302 Human Pathophysiology: Organ Systems I. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover developmental and genetic disorders, neoplasms, nervous system, bones, joints, skeletal muscle.

303 (HS 303) Human Pathophysiology: Organ Systems II. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cardiovascular, respiratory, blood and lymphoid systems, diabetes. Prereq: BMS(C L Sci / HS) 301(C) or cons instr.

303 Human Pathophysiology: Organ Systems II. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cardiovascular, respiratory, blood and lymphoid systems, diabetes.

304 Human Pathophysiology: Organ Systems III. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover gastrointestinal tract, pancreas, kidney, liver/biliary system, female and male reproductive systems. Prereq: BMS(C L Sci / HS) 301(C) or cons instr.

304 (HS 304) Human Pathophysiology: Organ Systems III. 1 cr. U. Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover gastrointestinal tract, pancreas, kidney, liver/biliary system, female and male reproductive systems. Prereq: BMS(C L Sci / HS) 301(C) or cons instr.
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<tr>
<th>Course Code</th>
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<th>Prerequisites</th>
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<tbody>
<tr>
<td>305 (HS 305)</td>
<td>Human Pathophysiology: Organ Systems IV</td>
<td>1 cr.</td>
<td>U. Pathological mechanisms underlying disease states, diagnosis/treatment of these disorders. Topics: endocrine system, infectious and parasitic diseases, environmental and nutritional factors related to morbidity/mortality. Prereq: BMS(C L Sci / HS) 301(C) or cons instr.</td>
</tr>
<tr>
<td>308 Imaging Procedures II</td>
<td>5 cr.</td>
<td>U. Radiographic anatomy and procedures for the bony thorax, vertebral column, and iodinated studies will be covered. Pediatric imaging for each procedure will be discussed. Prereq: jr st; BioMed Sci (C L Sci) Prog or cons instr.</td>
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</tr>
<tr>
<td>309 Imaging Procedures III</td>
<td>3 cr.</td>
<td>U. Radiographic anatomy and procedures for the cranium and facial bones; pediatric imaging for each procedure will be discussed. Prereq: none.</td>
<td></td>
</tr>
<tr>
<td>310 Introduction to Sonography</td>
<td>3 cr.</td>
<td>U. Introduction to Diagnostic Medical Sonography with an overview of basic terminology, techniques, and equipment. Prereq: jr st; BioMed Sci (C L Sci) Prog or cons instr.</td>
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328 (effective 09/02/2015) Foundations of Sonography II. 1 cr. U. Introduction to diagnostic medical sonography with an overview of basic techniques and equipment. [Prereq: BMS 327(P); jr st; BioMed Sci (CL Sci) Prog or cons instr.]

329 Clinical Nutrition. 2 cr. U. Nutritional needs throughout life; relationships between food habits and health problems; evaluating dietary information for deficiencies and imbalances. [Prereq: Chem 103(P), Bio Sci 202(P) & 203(P), or BMS(C L Sci) 232(P) or HlthSci 232(P).]


331 Cardiovascular Principles I. 4 cr. U. Introduction to cardiac physiology, mechanical events, left ventricle function indicators, timing of mitral and aortic flow, auscultation, phonocardiography, hemodynamics and Doppler applications of echocardiography. [Prereq: jr st in BioMed Sci (C L Sci) Prog or cons instr.]


334 Adult Echocardiography - Valvular Pathology. 3 cr. U. Introduction to cardiac pathology seen on echocardiograms in the adult population. [Prereq: jr st in BioMed Sci (C L Sci) Prog or cons instr.]

335 Clinical Education II - Echocardiography. 3 cr. U. Clinical practicum rotations including adult and pediatric echocardiography. [Prereq: jr st in BioMed Sci (C L Sci) Prog or cons instr.]


337 Adult Echocardiography - Cardiomyopathies. 2 cr. U. Cardiovascular disease and diagnostic cardiac procedures


Radiography Clinical Education II. 3 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education. Prereq: jr st in BioMed Sci (C L Sci) Prog or cons instr.


Radiographic Clinical Education III. 4 cr. U. Clinical Education allows students to rotate through all aspects of


402 Introduction to MSK Sonography. 1 cr. U. Study of anatomy (to include anatomic variants), physiology, pathophysiology and the sonographic appearance of the musculoskeletal system as evaluated by diagnostic medical sonography.|Prereq: jr st in BioMed Sci (C L Sci) Prog or cons instr.


420 Clinical Hematology. 3 cr. U/G. Lectures in the production, regulation, function, and cytomorphology of normal hematopoietic elements. Introduction to hemostasis theory.|Prereq: jr st or cons instr.

421 Introduction To Hematology Laboratory. 1 cr. U. Clinical laboratory experiences in basic hematology techniques and instrumentation to evaluate hematopoietic elements. 3 hr lab.|Prereq: jr st in BioMed Sci (C L Sci) Prog or cons instr; BMS(C L Sci) 420(C).

427 Clinical Immunology. 3 cr. U/G. Fundamentals of Clinical Immunology, including cellular, humoral and molecular aspects. Correlation of laboratory test results with clinical disease states.|Prereq: jr st.

428 Clinical Immunology Laboratory. 1 cr. U. Laboratory experiments in clinical immunology and theories of testing concepts. 3 hr lab.|Prereq: jr st in BioMed Sci (C L Sci) prog or cons instr; BMS(C L Sci) 427(C).

431 Clinical Chemistry. 3 cr. U/G. Correlation of clinical chemistry with the pathophysiology of human
432 Clinical Chemistry Laboratory Theory & Operations. 1 cr. U. Theory and application of Clinical Chemistry laboratory principles. Focus on laboratory principles, quality assurance, theory of instrumentation, and laboratory problem solving. Prereq: jr st; Chem 501(P) or cons instr; or grad st.


438 Clinical Education IV - Echocardiography. 3 cr. U. Clinical practicum rotations including advanced adult and pediatric imaging of the heart with focus on advanced pediatric competencies. Prereq: jr st in BioMed Sci (C L Sci) Prog or cons instr.


458 Seminar in Advanced Medical Imaging. 3 cr. U. Comparison of normal and pathological anatomy cases combining diagnostic medical sonography, computed sonography and magnetic resonance imaging.

459 Introduction to 3D/4D Ultrasound. 3 cr. U. Comparison of normal and pathological anatomy cases utilizing two, three and four dimensional sonography techniques. Prereq: jr st in BioMed Sci (C L Sci Prog) or cons instr.


462 Seminar in Ultrasound Research. 3 cr. U. Student is assigned to a research project and mentor in didactic one-on-one sessions and performing clinical studies. Prereq: jr st in BioMed Sci (C L Sci) Prog or cons instr.


463 Seminar in Education and Management in Medical Imaging. 3 cr. U. Problem solving of management issues relating to diagnostic medical sonography, computed sonography and magnetic resonance imaging.


472 Radiographic Anatomy and Physiology IV. 3 cr. U. Structure and physiology of the human body as they relate to


474 Radiography Clinical Education IV. 4 cr. U. Students to rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: sr st in BioMed Sci (C L Sci) Prog or cons instr.


479 Radiography Clinical Education V. 3 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: sr st in BioMed Sci (C L Sci) Prog or cons instr.

481 Criminalistics. 3 cr. U. Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.|Anthro 481, Chem 481, BMS(C L Sci) 481, & Crm Jst 481 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480 (P).


486 Radiography Clinical Education VI. 4 cr. U. Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.|Prereq: sr st in BioMed Sci (C L Sci) Prog or cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: acceptance to Study Abroad Prog.

501 Introduction to Cytotechnology. 1 cr. U. Fieldwork to include lecture and laboratory instruction introducing the
profession of Cytotechnology with emphasis on the role, responsibility, and ethics of the profession.|Prereq: sr st in BioMed Sci (C L Sci) & cons prog dir.

521 Applied Clinical Hematology. 2 cr. U. Instruction in hematological laboratory techniques and the pathophysiology of disease of the reticuloendothelial system using case studies as a basis of discussion.|Prereq: sr st in BioMed Sci (C L Sci Prog) or cons instr.


524 Advanced Clinical Hematology Practicum. 3 cr. U. Practical experience in the clinical laboratory dealing with both normal and abnormal hematology and body fluids.|Prereq: sr st in BioMed Sci (C L Sci) Prog or cons prog dir.

529 Introduction to Immunohematology. 3 cr. U. An introduction to the fundamentals of immunohematology and clinical blood banking.|Prereq: BioMed Sci(C L Sci) 427(P) or cons instr.

530 Immunohematology and Blood Banking Laboratory. 1 cr. U. Fundamental practical instruction in basic blood banking techniques.|Prereq: BMS(C L Sci) 529(C) or cons instr.

531 Advanced Lectures in the Clinical Laboratory Sciences. 1 cr. U. Clinical applications and relationships within the various disciplines of clinical laboratory sciences including discussion of current topics of interest in diagnostic medicine.|Prereq: sr st in BioMed Sci (C L Sci) Prog or cons instr.


534 Medical Microbiology. 3 cr. U/G. Advanced comprehensive study of microorganisms that influence human health and disease. Emphasis on identification/diagnosis and microbial attributes and mechanisms that facilitate infectious disease.|Prereq: jr st & Bio Sci 383(303)(P); or grad st; or cons instr.


536 Applied Clinical Microbiology. 2 cr. U. Lectures and laboratory dealing with the systematic study of bacteria of medical importance to humans.|Prereq: sr st in BioMed Sci (C L Sci) or cons prog dir.

537 Medical Parasitology and Mycology. 2 cr. U/G. Lectures and laboratory dealings with the medically significant parasitic and mycotic agents of human disease.|Prereq: sr st in BioMed Sci (C L Sci) Prog; or grad st; or cons instr.


539 Public Health Microbiology. 2 cr. U/G. The role of microbiological analysis in public health and the current techniques for detecting, identifying, and enumerating pathogenic microorganisms.|Prereq: jr st & Bio Sci 383(303)(P), or grad st; or cons instr.

540 Public Health Microbiology Lab. 1 cr. U/G. Current laboratory techniques for detecting, identifying, and
enumerating pathogenic microorganisms. | Prereq: jr st, or cons instr; BMS(C L Sci) 539(C).

540 (effective 09/02/2015) Public Health Microbiology Lab. 2 cr. U/G. Current laboratory techniques for detecting, identifying, and enumerating pathogenic microorganisms. | Prereq: jr st, or cons instr


544 Advanced Clinical Chemistry Practicum. 3 cr. U. Experience in a hospital laboratory dealing with routine and specialized biochemical procedures and all phases of instrumentation currently used in this field. | Prereq: sr st in BioMed Sci (C L Sci) Prog or cons prog dir.


547 Clinical Laboratory Diagnosis. 5 cr. U. Lectures and laboratory covering special topics in the use of laboratory testing in clinical diagnosis of disease. | Prereq: sr st in BioMed Sci (C L Sci) Prog or cons prog dir.


549 Professional Development in Clinical Laboratory Sciences. 3 cr. U. Discussion and participation in professional development activities. Topics include: laboratory management, laboratory information systems, professional conduct, ethics, certification, job placement, and educational methodologies.


555 Toxicology and Therapeutic Drug Monitoring. 1 cr. U/G. Survey of the pharmacology and analytical methods for identification and quantitation of therapeutic and toxic substances. | Prereq: jr st, & Chem 341(P) or 345(P); or cons instr.

560 Molecular and Genetic Diagnostics. 2 cr. U/G. Introduction to principles and applications of DNA technology in the clinical laboratory. | Prereq: jr st, Chem 501(P); or grad st.

561 Molecular Diagnostics Laboratory. 1 cr. U/G. Clinical laboratory experiences in molecular diagnostic techniques and instrumentation. | Prereq: jr st & BMS(C L Sci) 560(C); or grad st & BMS(C L Sci) 705(P); or cons instr.

575 Cytology of the Female Genital Tract - I. 4 cr. U. Fieldwork to include lectures discussing the normal and abnormal cytology of the female genital tract. | Prereq: sr st in BioMed Sci (C L Sci) Prog & cons prog dir.

576 Cytology of the Female Genital Tract - II. 4 cr. U. Fieldwork to include laboratory experience dealing with the study of the normal and abnormal cytology of the female genital tract. | Prereq: sr st in BioMed Sci (C L Sci) Prog & cons prog dir.

<table>
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<tbody>
<tr>
<td>579</td>
<td>Cytology of Effusions and the Central Nervous System</td>
<td>3 cr.</td>
<td>Fieldwork to include lecture and laboratory experiences in the study of various body fluids in health and disease.</td>
<td>Sr st in BioMed Sci (C L Sci) &amp; cons prog dir.</td>
</tr>
<tr>
<td>580</td>
<td>Aspiration Cytology</td>
<td>4 cr.</td>
<td>Fieldwork to include lecture and laboratory experience dealing with aspiration cytology.</td>
<td>Sr st in BioMed Sci (C L Sci) Prog &amp; cons prog dir.</td>
</tr>
<tr>
<td>581</td>
<td>Special Procedures in Cytology</td>
<td>1 cr.</td>
<td>Fieldwork to include lecture and laboratory experiences dealing with special procedures used in cytological diagnosis.</td>
<td>Sr st in BioMed Sci (C L Sci) Prog &amp; cons prog dir.</td>
</tr>
<tr>
<td>582</td>
<td>Cytology of the Breast</td>
<td>1 cr.</td>
<td>Fieldwork to include lecture and laboratory experiences dealing with the normal and abnormal cytology of the breast.</td>
<td>Sr st in BioMed Sci (C L Sci) &amp; cons prog dir.</td>
</tr>
<tr>
<td>583</td>
<td>Cytology Preparation Techniques</td>
<td>1 cr.</td>
<td>Fieldwork to include laboratory preparation of gynecologic and non-gynecologic cytology specimens using several different instrument methodologies.</td>
<td>Sr st in BioMed Sci (C L Sci) Prog &amp; cons prog dir.</td>
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<tr>
<td>585</td>
<td>Internship in Forensic Toxicology</td>
<td>1-3 cr.</td>
<td>Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.</td>
<td>Anthro 585, Chem 585, BMS(C L Sci) 585, &amp; Crm Jst 585 are jointly offered; they count as repeats of one another. Jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/ Crm Jst 281(P) &amp; 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.</td>
</tr>
<tr>
<td>589</td>
<td>Internship in Death Investigation</td>
<td>1-3 cr.</td>
<td>Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.</td>
<td>Anthro 589, Chem 589, BMS(C L Sci) 589 &amp; Crm Jst 589 are jointly offered; they count as repeats of one another. Jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/ Crm Jst 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.</td>
</tr>
<tr>
<td>590</td>
<td>Topics in Clinical Laboratory Sciences: (Subtitled)</td>
<td>1-5 cr.</td>
<td>Topics of current interest in the field of clinical laboratory sciences. The major theme for each semester offering will be posted.</td>
<td>Jr st; cons instr for grad cr.</td>
</tr>
<tr>
<td>594</td>
<td>Internship in Forensic Science</td>
<td>1-3 cr.</td>
<td>On-site shadowing of evidence analyst at State Crime Laboratory.</td>
<td>Anthro 594, Chem 594, BMS(C L Sci) 594, &amp; Crm Jst 594 are jointly offered; they count as repeats of one another. Jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.</td>
</tr>
<tr>
<td>599</td>
<td>Independent Study</td>
<td>1-3 cr.</td>
<td>Individualized experience which enables the student to study current topics of interest to the clinical laboratory scientist. Level of credit assigned based on time required for completion.</td>
<td>Cons instr &amp; prog dir.</td>
</tr>
</tbody>
</table>
600 Contrast Diagnostic Imaging. 3 cr. U/G. Use of contrast media in medical imaging diagnostic procedures. Prereq: jr st in Biomed Sci program; ARRT, ARDMS, or CCI Imaging Certification or completion of an Intro to Diagnostic Imaging course.

600 Contrast Diagnostic Imaging. 3 cr. U. Use of contrast media in medical imaging diagnostic procedures.

601 Molecular Imaging for Diagnostic Imaging. 3 cr. U. Study of imaging principles utilized with molecular imaging. To include review of scientific publications for the use of molecular imaging to review various disease processes.

601 Molecular Imaging for Diagnostic Imaging. 3 cr. U/G. Study of imaging principles utilized with molecular imaging. To include review of scientific publications for the use of molecular imaging to review various disease processes. Prereq: jr st in Biomed Sci program; ARRT, ARDMS, or CCI Imaging Certification or completion of an Intro to Diagnostic Imaging course.


615 Cellular and Molecular Toxicology. 3 cr. U/G. Cellular and molecular mechanisms of toxicant interactions with critical target organelles and molecules and subsequent downstream cellular responses. Prereq: jr st, Chem 501(P) or cons instr; or grad st.

This course information produced at 01:00 on 07/30/2015.
210 Survey of Communication Disorders. 3 cr. U. A broad overview of speech, language, and hearing disorders. Normal development, adult functions and cultural differences are explored, as well as general approaches to rehabilitation. Prereq: none.


230 Introduction to Phonetics. 4 cr. U. Descriptive study of the production and perception of English speech sounds; broad phonetic transcription; introduction to physiological, acoustic, and clinical phonetics. 3 hr Lec, 1 hr Lab/Dis. Prereq: none.

240 Normal Speech and Language Development. 3 cr. U. Intensive study of children's speech and language acquisition and research techniques for investigating children's speech and language behavior. Interrelationship with other development areas also discussed. Prereq: none.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity. BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.

350 Clinical Process I: Articulation and Phonology Disorders. 3 cr. U. Introduction to the clinical process and its application to the assessment and intervention of articulation and phonology disorders in children. Prereq: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP).

351 Clinical Process II: Child Language Disorders. 3 cr. U. The clinical process and its application to the assessment and intervention of language disorders in children. Prereq: jr st; admis to major; ComSDis 350(NP).

380 Bases of Hearing Science. 3 cr. U. Consideration of fundamental physical and psychophysical concepts in hearing science and advanced topics in auditory physiology promoting a basic understanding of hearing and hearing measurement. Prereq: ComSDis 220(NP) or cons instr.

450 Bases of Fluency and Voice Disorders. 3 cr. U. Overview of the basic requirements for fluent speech and voice
460 Survey of Adult Neurogenic Language and Speech Disorders. 3 cr. U. Principles and concepts underlying acquired adult neurogenic language and speech disorders. Topics include aphasia, apraxia, dysarthria, dementia, closed head injury, and right hemisphere disorders. | Prereq: jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP) or cons instr.

470 (491) Introduction to Audiology. 3 cr. U. Overview of clinical hearing assessment including principles of assessment, instrumentation and calibration, basic audiometry, interpretation of audiometric results, and hearing disorders. Participation in laboratories required. | Prereq: jr st; ComSDis 220(NP), 380(NP) or cons instr.

480 Speech Science. 3 cr. U. Study of anatomic, physiologic, acoustic and perceptual parameters involved in speech production and perception; exposure to instrumentation for clinical application/research. | Prereq: jr st; admis to major; ComSDis 380 or cons instr.

490 Audiologic (Re)Habilitation. 3 cr. U. Study of the fundamentals of (re)habilitative audiology. Includes study of current comprehensive audologic (re)habilitative approaches with pediatric through geriatric populations. | Prereq: jr st; ComSDis 470(P).

500 Clinical Practice in Speech-Language Pathology: (Subtitled). 3 cr. U. Initial supervised practicum experience with articulation, phonology, and/or child language disorders. | Not retakeable. Prereq: jr st; admis to major; ComSDis 351(P); cons instr.

520 Counseling in Communication Disorders. 3 cr. U/G. Current theories in counseling and guidance, procedures designed specifically for use with the communicatively impaired. Opportunity for application of knowledge will be provided. | Prereq: jr st; admis to major or cons instr.

579 Special Topics in Communication Sciences and Disorders: (Subtitled). 1-3 cr. U/G. Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered. | May be repeated with change in topic to max of 6 cr. Prereq: jr st.

580 Communication Problems of the Older Adult. 3 cr. U/G. Study of the impairments to the communicative process caused by physiological, environmental, and social psychological changes which come with aging. | Prereq: sr st; ComSDis 460 or cons instr.

620 Craniofacial Disorders. 2 cr. U/G. Genetic, embryological, anatomical and physiological aspects of craniofacial disorders, including cleft lip and palate; associated communicative disorders; diagnostic and therapeutic approaches for related speech-language problems. | Prereq: ComSDis 350(P), 351(P), 480(P); cons instr.

630 Communication Disorders in Multicultural Populations. 2 cr. U/G. Application of theoretical models and research perspectives to the assessment and treatment of communication disorders in children from multicultural populations. | Prereq: sr st; cons instr.

634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities. 3 cr. U/G. Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings. | ExcEduc 634, Occthpy 634, & ComSDis 634 are jointly offered; they count as repeats of one another. Prereq: jr st.

640 Clinical and Research Instrumentation in Communication Sciences & Disorders. 2 cr. U/G. Hands-on laboratory experience with several clinically practical and non-invasive instrumentation systems for analyzing, monitoring, documenting normal as well as abnormal articulation, voice and prosody. | Prereq: sr st; ComSDis 480(P); cons instr.
650 Communication Assessment and Intervention for Persons with Disabilities. 3 cr. U/G. Application of various theories and models of communication assessment and intervention for persons with severe/profound disabilities. Prereq: sr st; cons instr.

660 School-Age Language. 2 cr. U/G. Language disorders in older children and adolescents; application of developmental theory to assessment and intervention. Prereq: sr st; cons instr.


670 (521) Advanced Procedures in Audiology. 3 cr. U/G. Masking, speech audiometry, acoustic immittance testing, differential diagnosis, audiological screening design, development and implementation, special pediatric and geriatric concerns; audiologic counseling and hearing aid orientation. Prereq: sr st; ComSDis 470(P); cons instr.

688 (708) Evaluation and Diagnosis in Speech-Language Pathology. 2 cr. U/G. The diagnostic process in speech-language assessment: case histories and interviewing, formal and informal assessment, interpretation of results, and report writing. Prereq: sr st; ComSDis 351(P); or cons instr.

690 Cognitive Communication Disorders in Adults. 2 cr. U/G. Communication disorders related to traumatic brain injury and dementia in adults. Emphasis on neuropathology, symptomatology, assessment, and management. Prereq: sr st, ComSDis 460, and cons instr; or grad st.

699 Advanced Independent Study. 1-3 cr. U. Individual program of supervised study. Retakeable to 6 cr max. Prereq: sr st; cons instr & faculty advisor; completion of advanced independent study form.
133 Contemporary Imagination in Literature and the Arts. 3 cr. U. Introduction to comparative literature, focusing on the study of world literatures and their relations to other arts, and to cultural and social currents. | Prereq: none.

135 Experiencing Literature in the 21st Century: (Subtitled). 3 cr. U. Critical study of literary forms (e.g. romance, comedy, short story) and their connections with other arts and media, such as cinema, TV, and music. | Retakable w/chg in topic to 9 cr max. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-6 cr. U. For further information, consult dept chair. | Retakable to 6 cr max. Prereq: 2.5 gpa; wrt cons instr, dept chair & asst dean for SAS.

207 World Literature in Translation: Antiquity through the 1600s. 3 cr. U. Literary analysis through a survey of world literature from antiquity through the 1600s. | Prereq: none.

208 World Literature in Translation: The 17th to the 21st Century. 3 cr. U. Literary analysis through a survey of world literature from the 1600s to the present. | Prereq: none.

230 Literature and Society: (Subtitled). 3 cr. U. Relationships between literature and aspects of society, e.g., philosophical movements; history; gender, race, class, or sexuality. | Retakable w/chg in topic to 9 cr max. Prereq: none. CompLit 133(R).


232 Literature and Politics: (Subtitled). 3 cr. U. Multiple ways literature and politics shape and influence one another, with particular focus on links between literary and political representation. | Retakable w/chg in topic to 9 cr max. Prereq: CompLit 133(R).

233 Literature and Film: (Subtitled). 3 cr. U. Themes, styles, and ideology in cinematic and literary texts. | Retakable
289 Internship in Comparative Literature, Lower Division. 1-6 cr. U. Application of basic principles of comparative literature in a business, organizational, educational, political, or other appropriate settings. One cr earned for academic work on 40 hours in internship. Retakable to 6 cr max. Prereq: CompLit 100- or 200-level course; 2.25 gpa; cons supervising faculty member.

293 Literature and Science: (Subtitled). 3 cr. U. Dehumanization of mankind by technology as theme for changing literature. Retakable with change in topic to 9 cr max. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

309 Great Works of Modern Literature: (Subtitled). 3 cr. U/G. Literature of the twentieth and twenty-first centuries, with emphasis on theme, movement, trend, genre, or mode. Retakable w/chg in topic to 9 cr max. Prereq: jr st; CompLit 207(R) or 208(R).

320 Mediaeval Literature and Culture: (Subtitled). 3 cr. U/G. Major genres, themes, and figures of the Middle Ages through representative literary works, devotional writings, visual art, architecture, and other examples of cultural production. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

321 Renaissance Literature and Culture: (Subtitled). 3 cr. U/G. Major genres, themes, figures, tenets, aspects, influences, and trends in Renaissance literature through representative literary works, visual art, architecture, and other examples of cultural production. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

333 Dante's Divine Comedy in Translation. 3 cr. U/G. Close reading of the Inferno, Purgatorio, and Paradiso, including their connections to the visual arts. CompLit & Italian 333 are jointly offered; they count as repeats of one another. Prereq: jr st.

350 Topics in Comparative Literature: (Subtitled). 3 cr. U/G. One or more areas of comparative literature across periods, genres, or regions. Retakable w/chg in topic to 6 cr max. Prereq: jr st.

360 Seminar in Literature and Cultural Experience: (Subtitled). 3 cr. U/G. How culture is expressed in literary works with specific emphasis on how dominant and marginalized groups are represented in literature. Retakable w/chg in topic to 6 cr max. Prereq: jr st.


363 Chinese Literature in the Global Context: (Subtitled). 3 cr. U/G. Modern or contemporary Chinese literature; focus on a period, theme, genre, or movement in relation to literary cultures of other countries and regions or world events. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

365 Literatures and Cultures of the Americas: (Subtitled). 3 cr. U/G. Comparative study of the literatures and cultural expressions of three or more national, ethnic, or linguistic traditions within North and South America and the Caribbean. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

381 Honors Seminar: (Subtitled). 3H cr. U. Critical study of a problem in comparative literary relations. Retakable w/chg in topic to 9 cr max. Prereq: CompLit 133(R).

457 Topics in French and Francophone Studies in Translation: (Subtitled). 3 cr. U/G. Critical reading, lectures, and discussion of important works on a topic, genre, or historical period with particular emphasis on intellectual and cultural context. CompLit 457 & French 457 are jointly offered; they count as repeats of one another. Retakable w/chg in topic to 9 cr max. Prereq: jr st or cons instr.

461 Film-Fiction Interaction: (Subtitled). 3 cr. U/G. Growth and development of film in conjunction with literary devices (narrative, setting, etc.), novels, plays, biographies, and poetry. Mutual influences of literary and cinematic arts. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

463 Literary Criticism: Major Authors. 3 cr. U/G. The development of critical theories from Plato to the present. Prereq: jr st.

464 Seminar in Comparative Literary Criticism: (Subtitled). 3 cr. U/G. Principles and theories of literary criticism in a given period; major approaches to literature. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

489 Internship in Comparative Literature, Upper Division. 1-6 cr. U. Application of advanced principles of comparative literature in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in CompLit; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.


699 Advanced Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a CompLit faculty or instructional academic staff member. For further information, consult CompLit prog coord. Retakable w/chg in topic. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
101 (211) Introduction to PC Application Software. 3 cr. U. Introduction to software applications of the personal computer, including word processing, desktop publishing, spreadsheets, and databases. Not open to CompSci students for cr. Prereq: none.

111 Introduction to Unix. 1 cr. U. Introduction to basic user skills for Unix operating systems. File system structure and access control. Basic user commands. Text editing. Internet utilities. Prereq: none.

112 Introduction to the Internet and the World Wide Web. 3 cr. U. Survey of the technologies that enable common Internet applications and their security/privacy issues. Topics include HTTP, TCP/IP, DNS, email protocols, search engines, encryption, digital signatures and malware. Prereq: none.


132 Introduction to Computers and Programming. 3 cr. U. How computers work; communicating with computers; introductory programming in a high-level language; elementary problem solving. Prereq: Math placement code of 30 or Math 105(C).

140 Introduction to the Computer Science Laboratories. 1 cr. U. Survey of the programming tools available in the Computer Science laboratory environment. Prereq: CompSci 201(C)

150 Survey of Computer Science. 3 cr. U. A survey of computer science. Topics include data storage and manipulation, operating systems and networks, algorithms and data structures, programming languages, artificial intelligence, and computability. Counts as repeat of CompSci 299 with similar topic. Prereq: none.

151 Introduction to Scientific Programming in Fortran. 3 cr. U. Design and implementation of computer programs in fortran; stress will be placed on applications to different fields of science and engineering. Prereq: Math 231(C) or 226(C).

153 Introduction to Scientific Programming in C++. 3 cr. U. Design and implementation of computer programs in C++; stress will be placed on applications to different fields of science and engineering. Prereq: Math 231(C) or 226(C).
<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Offered Until</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Introductory Computer Programming</td>
<td>3 cr. U.</td>
<td></td>
<td>Problem solving with structured programming techniques using an object-oriented programming language, including control structures, functions, arrays, vectors, and pre-defined objects. Prereq: Math Placement Code of 35 or Math 116(C) or Math 211(C).</td>
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</thead>
<tbody>
<tr>
<td>240 (effective 09/02/2015)</td>
<td>Introduction to Engineering Programming</td>
<td>3 cr. U.</td>
<td></td>
<td>Problem solving with structured programming techniques using an engineering oriented programming language, such as MATLAB, including control structures, functions, arrays and matrices. Prereq: Math Placement Code of 40 or Math 116(P).</td>
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</table>

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<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>250 (201) (effective 09/02/2015)</td>
<td>Introductory Computer Programming</td>
<td>3 cr. U.</td>
<td></td>
<td>Problem solving with structured programming techniques using an object-oriented programming language, including control structures, functions, arrays, vectors, and pre-defined objects. Prereq: Math Placement Code of 40 or Math 116(P) or Math 211(P).</td>
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</thead>
<tbody>
<tr>
<td>251 (effective 09/02/2015)</td>
<td>Intermediate Computer Programming</td>
<td>3 cr. U.</td>
<td></td>
<td>Problem solving with objects. Writing classes. Use of standard data structures. Basic software development skills including text analysis tools, debugging, and configuration management. Prereq: Math Placement Code of 40 or Math 116(P) or Math 211(P); C or better in CompSci 250(201)(P).</td>
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<tbody>
<tr>
<td>251</td>
<td>Intermediate Computer Programming</td>
<td>3 cr. U.</td>
<td></td>
<td>Problem solving with objects. Writing classes. Use of standard data structures. Basic software development skills including text analysis tools, debugging, and configuration management. Prereq: Math Placement Code of 40 or Math 116(P) or Math 211(P); C or better in CompSci 201(P).</td>
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<tbody>
<tr>
<td>290 Introductory Topics in Computer Science: (Subtitled)</td>
<td>1-3 cr. U.</td>
<td>Lectures on new introductory material in computer science. Variable-content course. May be retaken to max of 6 cr with change in topic. Prereq: specific courses dependent on topic.</td>
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<tbody>
<tr>
<td>315</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3 cr. U.</td>
<td></td>
<td>Introduction to number systems, arithmetic and Boolean operations. Digital computer organization. A specific computer system, assembly and machine language programming. Prereq: Math Placement Code of 40 or Math 116(P) or Math 211(P); CompSci 201(P).</td>
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<tbody>
<tr>
<td>315 (effective 09/02/2015)</td>
<td>Introduction to Computer Organization and Assembly Language Programming</td>
<td>3 cr. U.</td>
<td></td>
<td>Introduction to number systems, arithmetic and Boolean operations. Digital computer organization. A specific computer system, assembly and machine language programming. Prereq: Math Placement Code of 40 or Math 116(P) or Math 211(P); CompSci 250(201)(P).</td>
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<tbody>
<tr>
<td>317 (217)</td>
<td>Discrete Information Structures</td>
<td>3 cr. U.</td>
<td></td>
<td>Introductory discussion of logic, proof techniques, sets, functions, relations, combinatorics, probability, and graphs. Prereq: grade of C or better in Math 221(P), 226(P) or 231(P); CompSci 152(P) or 201(P).</td>
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<tr>
<td>317 (effective 09/02/2015)</td>
<td>Discrete Information Structures</td>
<td>3 cr. U.</td>
<td></td>
<td>Introductory discussion of logic, proof techniques, sets, functions, relations, combinatorics, probability, and graphs. Prereq: grade of C or better in Math 221(P), 226(P) or 231(P); CompSci 250(201)(P).</td>
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<tbody>
<tr>
<td>337 System Programming</td>
<td>3 cr. U.</td>
<td></td>
<td></td>
<td>Introduction to the application programmer interface for a modern operating system. Overview of mechanisms for object oriented programming and memory management Prereq: C or better in CompSci 251(P).</td>
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</tr>
</thead>
<tbody>
<tr>
<td>351 Data Structures and Algorithms</td>
<td>3 cr. U.</td>
<td>Programming in a structured, high-level, object-oriented language. Implementation of data structures and algorithms and their application. Prereq: Math Placement Code of 40 or Math 116(P) or 211(P); C or better in CompSci 251(P).</td>
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<tbody>
<tr>
<td>361 Introduction to Software Engineering</td>
<td>3 cr. U.</td>
<td></td>
<td></td>
<td>Introduction to core topics of software engineering including requirements analysis, object-oriented design, testing, and project management. Overview of ethical and social issues in</td>
</tr>
</tbody>
</table>
395 Social, Professional, and Ethical Issues. 3 cr. U. The social, professional and ethical issues that arise in the context of professional computing. Prereq: soph st or cons instr.


422 Introduction to Artificial Intelligence. 3 cr. U/G. Introduction to core techniques and broad survey of AI. Topics include: Lisp, heuristic search, knowledge representation, planning, vision, learning. Prereq: jr st; C or better in CompSci 317(217)(P); & CompSci351(252)(P).

423 Introduction to Natural Language Processing. 3 cr. U/G. Introduction to natural language processing programs and an overview of the field. Topics include syntactic frameworks, parsing, semantics, interpretation, and applications. Prereq: jr st; C or better in CompSci 351(P).

425 Introduction to Data Mining. 3 cr. U/G. Algorithms for uncovering useful information from data. Topics include data exploration, association rules, clustering, supervised learning, and mining structured data (e.g., sequences or graphs). Counts as repeat of CompSci 657 with same topic. Prereq: jr st; CompSci 251(P), Math 221(P) or Math 232(P).


438 Software Engineering Laboratory. 1-6 cr. U/G. Software projects involving definition, design, development, documentation and implementation of software systems. May be retaken with change of topic to 6 cr max. Prereq: jr st; C or better in CompSci 251(P).

444 Introduction to Text Retrieval and Its Applications in Biomedicine. 3 cr. U/G. Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods. Jointly offered with & counts as repeat of HCA 444, CompSci 744, & HCA 744. Prereq: jr st; CompSci 351(P) or HCA 442(P).

458 Computer Architecture. 3 cr. U/G. Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures. Jointly offered with & counts as repeat of ElecEng 458. Prereq: jr st; ElecEng 354(P), CompSci 315(215)(P) or ElecEng 367(P).

459 Fundamentals of Computer Graphics. 3 cr. U/G. Scan-line algorithms, object representation, homogeneous coordinates, geometric transformations, viewing curves, illumination models, interactive input methods, texture mapping. Prereq: jr st; Math 232(P); CompSci 251(P).

469 (effective 09/02/2015) Introduction to Computer Security. 3 cr. U/G. Privacy and authenticity of data and programs, communication, operating systems, network and database security, computer viruses, cryptography, private and public key cryptosystems, protocols. Prereq: jr st; C or better in both CompSci 317(217)(P) & 251(P).

469 Introduction to Computer Security. 3 cr. U/G. Privacy and authenticity of data and programs, communication, operating systems, network and database security, computer viruses, cryptography, private and public key cryptosystems, protocols. Prereq: jr st; C or better in both CompSci 317(217)(P) & 201(P).

481 Server-side Internet Programming. 3 cr. U. Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases. Prereq: CompSci 251(P); CompSci 113(P) or CompSci 581(P).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>481</td>
<td>Server-side Internet Programming</td>
<td>3</td>
<td>U</td>
<td>Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases. Prereq: CompSci 113(C), InfoSt 240(C), or Art 324(C)</td>
</tr>
<tr>
<td>511</td>
<td>Symbolic Logic</td>
<td>3</td>
<td>U/G</td>
<td>First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability. CompSci 511, Math 511, &amp; Philos 511 are jointly offered &amp; count as repeat of each other. Prereq: jr st &amp; either Philos 212(P) or 6 cr Math at the 300-level or above; or grad st.</td>
</tr>
<tr>
<td>520 (620)</td>
<td>Computer Networks</td>
<td>3</td>
<td>U/G</td>
<td>Layered network architecture, protocols, data transmission, local area networks, multiplexing and switching, routing flow and congestion control, internetworking, wireless networking, network reliability and security. Prereq: jr st; CompSci 315(215)(P) or CompSci 458(P) or ElecEng 367(P).</td>
</tr>
<tr>
<td>535</td>
<td>Algorithm Design and Analysis</td>
<td>3</td>
<td>U/G</td>
<td>Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation. Prereq: jr st; C or better in both CompSci 317(217)(P) &amp; 351(252)(P).</td>
</tr>
<tr>
<td>536</td>
<td>Software Engineering</td>
<td>3</td>
<td>U/G</td>
<td>Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming. Prereq: jr st; grade of C or better in CompSci 251(P).</td>
</tr>
<tr>
<td>537</td>
<td>Introduction to Operating Systems</td>
<td>3</td>
<td>U/G</td>
<td>Process management including scheduling, concurrency, synchronization, and deadlock; memory management, I/O management and disk scheduling, file systems. Systems programming. Prereq: jr st; CompSci 458(P) or ElecEng 458(P); CompSci 337(P).</td>
</tr>
<tr>
<td>545</td>
<td>FPGA Embedded CPUs &amp; Firmware Development</td>
<td>3</td>
<td>U/G</td>
<td>Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices. Jointly offered with &amp; counts as repeat of ElecEng 545. Prereq: jr st; ElecEng 367(P) &amp; 457(P).</td>
</tr>
<tr>
<td>552</td>
<td>Advanced Object-Oriented Programming</td>
<td>3</td>
<td>U/G</td>
<td>An advanced course in object-oriented programming. Abstraction; single and multiple inheritance; dynamic binding of functions; polymorphic types and operators; survey of object-oriented techniques. Prereq: jr st; C or better in both CompSci 351(P) &amp; 361(P).</td>
</tr>
</tbody>
</table>
595 Capstone Project. 4 cr. U. Students will integrate their knowledge of the undergraduate computer science curriculum by implementing a significant computer science team project. Prereq: sr st, CompSci 361(P), 458(P), 535(P), 537(P) or cons instr.

599 Senior Thesis. 3 cr. U. Independent scholarly research in Computer Science supervised by a faculty member. Prereq: sr st & cons instr.


655 Compiler Implementation Laboratory. 3 cr. U/G. Implementation of compiler phases: scanner, parser, semantic analysis; code generation and optimization. Prereq: jr st, CompSci 431(P); 654(C) or 754(C).

657 Topics in Computer Science: (Subtitled). 1-4 cr. U/G. Lectures on recent advances in computer science. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

658 Topics in Applied Computing: (Subtitled). 1-4 cr. U. Lectures on recent advances in applied computing. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered. Retakable w/chg in topic. Prereq: jr st.

699 Independent Study. 1-3 cr. U/G. May be repeated to max of 6 cr by undergraduates. Prereq: jr st; cons instr.

This course information produced at 01:00 on 07/30/2015.
COUNS Counseling

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

403 Overview of Counseling Skills. 3 cr. U. An applied course which introduces students to the basic interpersonal skills required in the counseling process. Designed for students interested in counseling and related fields. Prereq: jr st

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st, cons instr, acceptance for Study Abroad Prog.

579 Current Topics in Counseling: (Subtitled). 1-3 cr. U/G. Specific topic and prerequisites announced in Schedule of Classes each time course is offered. May be retaken with change in topic to max of 9 cr. Prereq: jr st

600 Introduction to Community Counseling. 3 cr. U/G. Survey of history of counseling; systems of counseling; credentialing in community counseling, counseling techniques; behavior modification and behavioral counseling; group processes in counseling. Prereq: jr st.

602 Introduction to School Counseling. 3 cr. U/G. Survey of history of school counseling, counseling techniques, systems of counseling, group counseling in schools. Prereq: jr st


150 Introduction to Research in Criminal Justice. 1 cr. U. Provides students with skills in legal and library research pertinent to topics in criminal justice, and introduces students to accepted styles of technical writing. Prereq: none.

271 Police Process. 3 cr. U. An interdisciplinary analysis of the role of police in a democratic society; emphasis on historical development of police institution, cultural attributes, accountability, occupational socialization, police-behavior, and selected current issues. Prereq: Crm Jst 110(P).


275 Criminal Court Process. 3 cr. U. Examination of criminal judicial process from setting bail through sentencing, role of courts within criminal justice. Analysis of structure, professional roles, and procedural law governing processing. Prereq: Crm Jst 110(P).

281 Dead Men Do Tell Tales: An Introduction to Forensic Science. 3 cr. U. A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated. Jointly offered with & counts as repeat of Anthro 281, Chem 281, & BMS(C L Sci 281). Prereq: none.


291 Current Issues in Criminal Justice: (Subtitled). 1-3 cr. U. Selected current issues in criminal justice. May be retaken with change in topic to max of 6 cr. Prereq: none.
297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. May be retaken with change in topic. Prereq: acceptance for Study Abroad Prog.

300 Criminal Process. 3 cr. U. Analysis of the problems of the criminal justice system in separating the guilty and the innocent. Discussion of constitutional issues and technical procedural problems involved. Prereq: jr st; Crm Jst 110(P).


305 (295) Crime and Criminal Justice Policy. 3 cr. U. Examination of criminal justice policy through analysis of relevant theory, research findings, and implications. Prereq: Crm Jst 110(P).

311 Field Experience Practicum. 3-6 cr. U. Placement in a faculty unit or project in a criminal justice setting, either public or private. Minimum 120 hours per semester under supervision. May be retaken to 6 cr max. Prereq: jr st; Crm Jst 110(P) & 150(P); writ cons instr. Regis priority for students admitted to Crm Jst major.

350 White Collar Crime. 3 cr. U. The nature and extent of white collar crime in the United States, especially the harmful and criminal acts of the rich and powerful. Prereq: Crm Jst 150(P).

370 Criminal Justice Administration. 3 cr. U. Analysis of operational and administrative issues in criminal justice drawn from organizational theory, management theory; discussion of organizational technology, structure, environment; and organizational assessment. Prereq: jr st; Crm Jst 110(P).

380 Victimology. 3 cr. U. An overview of conceptual and substantive issues in victim centered theory and research, including past, present and future models of victim participation in criminal justice. Prereq: Jr. st; Crm Jst 110(P) & 150(P).

385 Women and Criminal Justice. 3 cr. U. A study of female crime and delinquency, and how the criminal justice system responds to female crime. Prereq: none.

386 Criminal Intelligence. 3 cr. U. Contemporary responses to police problems, the tenets of various police styles and tactical crime analysis. Counts as repeat of Crm Jst 592 with same subtitle. Prereq: Crm Jst 110(P).

410 Comparative Criminal Justice. 3 cr. U. Comparative study of criminal justice components of selected countries. Emphasis will be on cultural influences on the principles and operation of criminal justice systems. Prereq: jr st or cons instr.

416 Domestic Violence Research. 3 cr. U. An examination of the criminal justice response to domestic violence related incidents. Theoretical and practical issues are explored in the context of physical child abuse, spousal battering, and elder abuse. Prereq: none.

420 Violence and the Criminal Justice System. 3 cr. U. Historical and contemporary study of violent crime and its relationship to the criminal justice system. Prereq: jr st; Crm Jst 110(P) & 150(P).

430 Punishment. 3 cr. U. Critical examination of theoretical justifications of punishment, corresponding sentencing structures, and recent empirical evidence addressing the utilitarian aims of punishment. Seminar. Prereq: jr st or cons instr.

460 The Federal System: The FBI, Courts and Corrections. 3 cr. U. Aspects of the federal criminal justice system; how law enforcement, courts, and corrections at the federal level are organized as well as special topics within these areas. Prereq: none.
480 Criminal Evidence and Investigation. 3 cr. U. Examination of the criminal investigation process with emphasis on theory of investigation, role of criminal evidence, and effectiveness of the process. Prereq: Crm Jst 110(P) & 150(P).

481 Criminalistics. 3 cr. U. Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony. Anthro 481, Chem 481, BMS(C L Sci) 481, and Crm Jst 481 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Crm Jst/Anthro/Chem/BMS(C L Sci) 281(P); Crm Jst 480(P).

497 Study Abroad: (Subtitled). 1-6 cr. U/G. Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakeable with change in topic to max of 9 cr. Prereq: jr st; acceptance for Study Abroad Prog.


520 Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS. 3 cr. U/G. Examines theories and applications to analyze data. Approaches include crime mapping and spatial analysis; strategic, administrative, and tactical crime analysis. Other methods are also covered. Prereq: jr st; Crm Jst 110(P).


585 Internship in Forensic Toxicology. 1-3 cr. U. Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist. Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

589 Internship in Death Investigation. 1-3 cr. U. Practical experience in death investigation under the supervision of a death investigator and forensic pathologist. Anthro 589, Chem 589, BMS(C L Sci) 589 & Crm Jst 589 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci certif prog; Crm Jst/Anthro/Chem/BMS(C L Sci) 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.

591 Senior Thesis. 1-3 cr. U. Thesis written under supervision. Prereq: sr st, 2.5 GPA; writ cons instr & dept.

592 Critical Issues in Criminal Justice: (Subtitled). 1-3 cr. U. Explores interests of special concern in criminal justice. Specific credits announced in Schedule of Classes whenever course is offered. May be retaken to max of 6 cr with change of topic. Prereq: jr st.

594 Internship in Forensic Science. 1-3 cr. U. On-site shadowing of evidence analyst at State Crime Laboratory. Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another. Prereq: jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

599 Independent Reading. 1-3 cr. U. Reading may be in any field for which the student has an adequate background. May be retaken to max of 6 cr. Prereq: sr st; writ cons instr & coord; gpa 2.5 or above.

662 Methods of Social Welfare Research. 3 cr. U. Analysis of methods used in social welfare research and problems in project design and programming. Distinctive characteristics of investigations directed to planning, administrative, and scientific objectives. Prereq: jr st.

663 Criminal Justice Capstone Seminar. 3 cr. U. Synthesis of criminal justice theories, empirical research and
program creation and implementation.|Prereq: jr st.

671 Juvenile Justice. 3 cr. U/G. Structure of juvenile justice system -- police, courts, and corrections; analysis of structure of subsystems of the juvenile justice process; introduction to literature and research.|Prereq: jr st or cons instr.

680 Jails. 3 cr. U/G. The primary purpose is to develop a comprehensive understanding of the role of the jail in contemporary society.|Prereq: jr st; Crm Jst 110 (P) & 150(P).

680 (effective 09/02/2015) Jails. 3 cr. U/G. The primary purpose is to develop a comprehensive understanding of the role of the jail in contemporary society.|Prereq: jr st; Crm Jst 110 (P).

This course information produced at 01:00 on 07/30/2015.
110 Reading Proficiency for College Students I. 1 cr. U. Presentation of techniques for the acquisition of basic reading skills. Emphasis on vocabulary building, text organizational structures, and comprehension. Prereq: completion of Nelson-Denny reading test.

111 (effective 09/02/2015) Introduction to College Reading. 2 cr. U. Understanding and application of college level reading skills. Counts as repeat of CurrIns 279 with same topic. Prereq: none.

112 College Reading: (Subtitled). 1 cr. U. Read and respond to text and essays by summarizing information, examining perspective, comparing and contrasting ideas and evaluating arguments. May be retaken to max of 3 cr. Prereq: completion of Nelson-Denny reading test.

140 (effective 09/02/2015) Field Experience with Families & Communities. 1 cr. U. Field experience in local agencies providing services to families. Prereq: CurrIns 312(C) or cons instr.

233 Introduction to Children's and Young Adult Literature. 3 cr. U. Introductory survey will focus on the literary merit and cultural contexts of works written for children and young adults. Prereq: none.

240 Field Experience with Dual Language Learners. 2 cr. U. Field experience with dual language learners in various settings. Prereq: CurrIns 140(P) & 501(C); or cons instr.

250 1st-Year Student Seminar: Early Childhood Education. 1 cr. U. Introductory seminar for first-year and transfer Early Childhood Education intended students. Counts as repeat of CurrIns 279 with same topic. Prereq: none.

279 Current Topics in Curriculum and Instruction: (Subtitled). 1-3 cr. U. Special topics for undergraduates will be offered from time to time. See Schedule of Classes. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title and Description</th>
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</thead>
<tbody>
<tr>
<td>300</td>
<td>Introduction to Teaching: Colloquium and Fieldwork. 3 cr. U. Introduction to the teaching profession and teaching in urban schools. Provides an overview of educational, multicultural, social, economic, and political issues that influence urban schools. Counts as repeat of CurrIns 100. Prereq: soph st.</td>
</tr>
<tr>
<td>301</td>
<td>Infants and Toddlers: Curriculum and Teaching. 3 cr. U. Approaches to infant/toddler care and education; instructional material and techniques to foster infant/toddler development; strategies for administering and managing learning environments. Prereq: soph st &amp; admis to School of Educ; or cons instr.</td>
</tr>
<tr>
<td>302</td>
<td>Curriculum Design in Early Childhood. 3 cr. U. Curriculum design and unit development in pre-primary and early primary classrooms. Prereq: jr st &amp; admis to School of Educ; or cons instr.</td>
</tr>
<tr>
<td>306</td>
<td>MCEA Clinical Experience, Grades 1-3. 1 cr. U. Clinical experience with children in grades 1-3. Focus on literacy tutoring with individual students and in small groups. Prereq: jr st, admis to SOE, CurrIns 536(C), &amp; 556(C); or cons instr.</td>
</tr>
<tr>
<td>307</td>
<td>MCEA Clinical Experience, Grades 4-8. 2 cr. U. Clinical experience focusing on instructional practices in grades 4-8. Prereq: jr st, admis to SOE, CurrIns 306(P), &amp; 557(C); or cons instr.</td>
</tr>
<tr>
<td>310</td>
<td>Curriculum for the Pre and Early Adolescent. 1-4 cr. U. The determination of curriculum and instructional approaches appropriate for the pre and early adolescent age group. Prereq: admis to School of Educ.</td>
</tr>
<tr>
<td>312</td>
<td>Introduction to Early Childhood Education. 3 cr. U. Overview of content, methods, and issues pertaining to the organization and directing of early childhood programs. Topics include program development, delivery of services, health, safety, nutrition, and home-school-community relations. Prereq: CurrIns 140(C).</td>
</tr>
<tr>
<td>313</td>
<td>Teaching Economics in the Social Studies Curriculum. 2 cr. U. Approaches to teaching economics in the social studies curriculum. Latest research and teaching practices. A study of cooperative enterprises to meet Wisconsin’s statutory requirement. Prereq: Econ 100(C).</td>
</tr>
<tr>
<td>314</td>
<td>Field Work I in Early Childhood Education - PreK/K. 1 cr. U. Field experience with children in prekindergarten or kindergarten. Planning and implementation of learning opportunities in the classroom. Prereq: jr st, CurrIns 302(C)</td>
</tr>
<tr>
<td>316</td>
<td>Field Work in Secondary Reading in Content Areas, Grade 6-12: (Subtitled). 3 cr. U. Field-based application of subject matter methods and instructional strategies in vocabulary development and comprehension, and assessment of student understanding of subject matter texts. Cr/no cr only. Prereq: jr st; admis to School of Educ; CurrIns 545 or equiv; &amp; conc reg in subject matter methods course.</td>
</tr>
<tr>
<td>320</td>
<td>Introduction to Critical Media Literacy. 1 cr. U. Introduction to media literacy and applications of instructional technology to support student learning. Prereq: admis to SOE or cons instr.</td>
</tr>
<tr>
<td>321</td>
<td>Introduction to the Teaching of Social Studies. 1 cr. U. Methods and content introducing the teaching of social studies in secondary schools. Prereq: jr st; admis to School of Educ.</td>
</tr>
<tr>
<td>323</td>
<td>Teaching of Social Studies: (Subtitled). 1-4 cr. U. An examination of the purposes of social studies education in the schools with work in content selection, educational process and the nature of inquiry. Prereq: jr st; admis to School of Educ.</td>
</tr>
</tbody>
</table>
| 325         | Instructional Strategies for Using the Computer. 1 cr. U. An examination of the instructional uses of computers. Focus on instructional strategies, software evaluation, and management of student learning. Prereq: jr st; admis to


328 Introduction to Teaching Science in Middle and High School. 3 cr. U. Exploration of science teaching through developing some foundational teaching strategies and working with students in middle and high schools. Prereq: none.


331 Teaching of Mathematics, Elementary School. 3 cr. U. Methods and curriculum for teaching mathematics in grades 1-6. Emphasis on whole numbers, computing devices, fractions/decimals, geometry, measurement, statistics, and problem-solving. Prereq: jr st; admis to SOE; Math 176(P) with grade C or better; or cons instr.

331 (effective 09/02/2015) Teaching of Mathematics, Elementary School. 3 cr. U. Methods and curriculum for teaching mathematics in grades 1-6. Emphasis on whole numbers, computing devices, fractions/decimals, geometry, measurement, statistics, and problem-solving. Prereq: jr st; admis to SOE; CurrIns 306(P) & Math 176(P) with grade C or better; or cons instr.

332 Teaching of Mathematics: Middle School. 2-3 cr. U. Methods and curriculum for the teaching of mathematics in the middle school. Emphasis on advanced arithmetic topics, number theory, probability and statistics, geometry, measurement, and applications. Prereq: jr st; admis to School of Educ; CurrIns 331(P).

333 Introduction to Teaching, Grades 1-8. 3 cr. U. Introduction to the teaching profession in grades 1-8 in urban setting. Overview of educational, multicultural, social and economic, and political issues that influence urban schools. Prereq: Ed Psy 330(C) or cons instr.

334 Teaching of Modern Foreign Languages. 1-4 cr. U. The study of modern foreign language; application of teaching methods to the teaching of modern foreign languages. Prereq: jr st; admis to School of Educ.

335 Instructional Computing I for Teachers. 1 cr. U. Introduction to instructional computing for teachers with emphasis on primary grades. Prereq: admis to Collaborative Teacher Ed Prog for Urban Communities.

336 Instructional Computing II for Teachers. 1 cr. U. Instructional computing for teachers with emphasis on intermediate grades. Prereq: admis to MCEA prog.

337 Instructional Computing III for Teachers. 1 cr. U. Instructional computing with emphasis on electronic portfolio development. Prereq: admis to MCEA (Middle Childhood through Early Adolescence) program & CurrIns 336(P).

338 Teaching of Science in Early Childhood. 3 cr. U. Objectives, materials, and teaching methods for science in Early Childhood. Prereq: jr st, admis to School of Educ, CurrIns 540(C) & 302(P); or cons instr.

340 Field Experience in Preschool and Kindergarten Classrooms. 2 cr. U. Field experience with children in prekindergarten/kindergarten. Focus on early literacy lesson planning. Prereq: CurrIns 240(P), 502(C) & admis to School of Educ; or cons instr.
343 Teaching of Reading. 1-4 cr. U. An introductory course in the teaching of reading. Involves fieldwork. Designed for students without teaching experience. [Prereq: admis to School of Educ or cons instr.]

375 Using Interactive Whiteboards for Teaching and Learning. 1 cr. U. Interactive whiteboards in K-12 classrooms; hardware basics, using software to achieve pedagogical goals, interactive lesson plans. [Jointly offered with and counts as repeat of ExcEduc 375. Prereq: none.]

376 Understanding and Developing the edTPA. 1 cr. U. In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries. [Jointly offered with and counts as repeat of ExcEduc 376. Prereq: none.]


380 Teaching Music in Elementary Schools I, II. 2 cr. U. Methods, materials and observation of teaching vocal music in grades n-6. Includes junior participating experience. [Prereq: jr st & admis to school of educ or cons instr.]

400 Field Work in Curriculum and Instruction: (Subtitled). 1-6 cr. U. Credit value to be determined by faculty advisor and student, on the basis of 1) the nature of the field work project, 2) the amount of time the student will spend with the project, and 3) relevant evaluation criteria to be agreed upon in advance by the student and his advisor. [Retakeable. Prereq: jr st.]

401 Seminar for Student Teaching. 1 cr. U. Collaboration around solving problems encountered in urban teaching through a structured inquiry format with others involved in the student teaching experience. [Prereq: jr st; admis to School of Educ.]

402 Student Teaching in Nursery and Kindergarten. 6 cr. U. [Prereq: jr st; admis to School of Educ.]

404 Student Teaching in Primary Grades. 6 cr. U. [Prereq: jr st & admis to student teaching.]

406 Advanced MCEA Clinical Experience. 4 cr. U. Advanced clinical experience focusing on instructional practices in grades 1-8. [Prereq: jr st, admis to SOE, & CurrIns 558(C); or cons instr.]

407 Student Teaching in Middle Childhood-Early Adolescence. 5 or 9 cr. U. Full time student teaching in grades 1-8. [Prereq: jr st, admis to student teaching, CurrIns 471(C) & 406(P); or cons instr.]

415 Preliminary Student Teaching: (Subtitled). 1-6 cr. U/G. Initial Student Teaching Experience for EAA Licensure Candidates. [Prereq: jr st; eligibility for student teaching & dept req.]

423 Student Teaching in Social Studies. 10-12 cr. U/G. Final Student Teaching Semester for EAA Social Studies Licensure Candidates. [Prereq: jr st; eligibility for student teaching & dept req.]

427 Student Teaching in Science. 2-6 cr. U. [Prereq: jr st; eligibility for student teaching & dept req.]

430 Student Teaching in Computer Science. 2-6 cr. U. [Prereq: jr st; eligibility for student teaching & dept req.]

431 Student Teaching in Mathematics. 2-6 cr. U. [Prereq: jr st; eligibility for student teaching & dept req.]


438 Student Teaching in World Language: Early Childhood-Adolescence. 2-12 cr. U. Students pursuing an EC-A
major in a World Language. May be retaken to max of 12 cr. Prereq: jr st; eligibility for student teaching & dept req.

440 (effective 09/02/2015) Field Experience in the Primary Grades. 2 cr. U. Field experience with children in primary grades. Focus on literacy lesson planning. Prereq: jr st, admis to School of Educ, CurrIns 340(P), CurrIns 504(C); or cons instr.

440 Field Experience in the Primary Grades. 2 cr. U. Field experience with children in prekindergarten/kindergarten. Focus on literacy lesson planning. Prereq: jr st, admis to School of Educ, CurrIns 340(P), CurrIns 504(C); or cons instr.

442 Student Teaching in Bilingual Education. 2-12 cr. U. Students pursuing a supplemental certification in bilingual: EC, MC-EA, EA-A, or EC-A. May be retaken to 12 cr max. Prereq: jr st & admis to student teaching.

443 Student Teaching in English as a Second Language: Minor. 2-12 cr. U. Students pursuing a minor in ESL EC, MCEA, EAA, or ECA. May be retaken to 12 cr max. Prereq: jr st, eligibility for student teaching & dept req.

444 Student Teaching in ESL- Early Childhood-Adolescence: (Subtitled). 2-12 cr. U. Students pursuing an EC-A ESL major. May be retaken to 12 cr max. Prereq: jr st; eligibility for student teaching & dept req.

445 Seminar in Language Education. 3 cr. U. Provides student teachers in the Language Education program support to reflect on their student teaching experience and successfully complete the program portfolio. Prereq: Admis to School of Educ; CurrIns 437(C), 438(C), 442(C), 443(C), or 444(C).

452 Student Teaching in English. 2-6 cr. U. Prereq: jr st; eligibility for student teaching & dept req.

470 Professional Urban Teaching Linking Seminar: (Subtitled). 2 cr. U. Facilitates professional growth and development of teachers through structured inquiry, professional collaboration to solve problems in urban teaching, and personal assessment of progress using portfolios. May be retaken with change of topic to max of 8 cr. Prereq: jr st; admis to School of Educ.


497 Study Abroad. (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st, cons instr, acceptance for Study Abroad Prog.


500 Workshop in Curriculum and Instruction: (Subtitled). 1-6 cr. U/G. Development of teacher growth through problem solving, self-expression, group thinking, and individual study. Individuals or small groups work on problems growing out of their professional needs. Specific topics and any additional prerequisites will be announced in Timetable each time the course is offered. May be retaken with change of topic. Prereq: jr st or grad st.

501 Language Acquisition for Children of Diverse Backgrounds. 3 cr. U. Examination of theories of language acquisition and development for children of diverse backgrounds. Teaching methods for developing literacy and biliteracy. Methods of sheltered language instruction. Prereq: soph st, admis to School of Educ, CurrIns 312(P) & 240(C); or cons instr.

502 Emergent Literacy and Biliteracy in the Early Childhood Classroom. 3 cr. U. Study of literacy and biliteracy development of young children and teaching methods to support this development in the early childhood classroom. Prereq: jr st, admis to School of Educ, CurrIns 501(P) & CurrIns 340(C); or cons instr.

503 Assessment Issues in Language Education. 3 cr. U/G. Approaches to assessment of first and second language
learning including rationale, traditional and alternative strategies, interpretation of results for placement, instruction, and program evaluation.|Prereq: jr st or instr cons; admis to School of Educ or grad st.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>504</td>
<td>Teaching Reading and Writing in Early Childhood: The Primary Years</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>504 (effective 09/02/2015)</td>
<td>Methods for Biliteracy and Language Arts in Primary Grades</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>505</td>
<td>Collaborative Relationships with Families, Schools and Communities</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>508</td>
<td>Language and Urban Schooling</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>509</td>
<td>Reading and Social Welfare</td>
<td>1</td>
<td>U/G</td>
</tr>
<tr>
<td>510</td>
<td>Cooperative Strategies for Pre and Early Adolescents</td>
<td>1-3</td>
<td>U/G</td>
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<tr>
<td>511</td>
<td>Curriculum and Guidance for Social -Emotional Learning</td>
<td>3</td>
<td>U</td>
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<tr>
<td>512</td>
<td>Reflective Practice in Early Childhood Teaching and Learning</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>514</td>
<td>Field Work II in Early Childhood Education-Primary</td>
<td>1</td>
<td>U</td>
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<tr>
<td>516</td>
<td>Field Work in Middle School</td>
<td>2-6</td>
<td>U/G</td>
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<tr>
<td>518</td>
<td>Science Methods I: Middle/Secondary Methods and Fieldwork</td>
<td>3-6</td>
<td>U/G</td>
</tr>
<tr>
<td>519 (329)</td>
<td>Science Methods II: Middle/Secondary Methods and Fieldwork</td>
<td>3-6</td>
<td>U/G</td>
</tr>
<tr>
<td>520</td>
<td>Developing Mathematical Thinking in Young Children</td>
<td>3</td>
<td>U/G</td>
</tr>
</tbody>
</table>

Prereqs and other requirements vary by course. Consult the catalog for specific details.


525 Environmental Resources Workshop: (Subtitled). 1-3 cr. U/G. Methods and curriculum for teaching about environmental problems. Topic-specific prereq will be published in the Schedule of Classes|M May be retaken with change in topic to max of 6 cr. Prereq: jr st.

527 Science in the Elementary School. 3 cr. U/G. Study of science curriculum materials; instructional procedures; analysis of pupil learning modes; experience with science equipment; teaching of science as inquiry; individual problems and projects.|Prereq: jr st & admis to School of Educ; or grad st.

530 Workshop in Computer Instruction in the Schools. 3 cr. U/G. Examination, construction and evaluation of computer extended instruction. Emphasis on participant development of curriculum materials and instructional procedures centered on pupil development.|Not open to students who have cr in Ed Psy 530, which is identical to CurrIns 530. Prereq: jr st; cons instr.

531 Teaching of Computer Science. 3 cr. U/G. Methods and curriculum for the teaching of computer science in the secondary schools. A brief introduction to management of a computer laboratory.|Prereq: jr st & admis to School of Educ & CompSci 351; or grad st.


533 Foreign Language Workshop. 1-4 cr. U/G. Analysis of current developments and changes in foreign language education. Critical examination of specific problems, conflicts, and trends - e.g. in teaching basic skills, teaching culture and literature, use of audio-visual materials and the language laboratory; the effect of current competition and foreign language student teaching supervision. Study of curriculum revision and of instructional materials. Individual curriculum projects or research possibilities.|Prereq: jr st & cons dept. Not

534 Instructional Strategies in Early Childhood Education. 3 cr. U. Study of instructional strategies and practices in the early childhood classroom to promote effective teaching and engaged learning for all children.|Prereq: jr st & admis to SOE; or cons instr.

535 Methods and Techniques in Affective Education. 1-3 cr. U/G. Basic principles and practical techniques for instruction in the affective domain are modeled and practiced. Although process oriented, the course does not neglect theoretical frameworks.|Prereq: jr st.

536 Literacy 1: Assessing and Teaching Early Literacy. 3 cr. U/G. Addresses early reading and language arts assessment and instruction with diverse learners. Includes concurrent clinical experience.|Prereq: jr st, CurrIns 306(C) & admis to SOE; or cons instr.

537 Literacy 2: Assessing and Teaching Literacy through Early Adolescence. 3 cr. U/G. The role of reading and language arts assessment and instruction with diverse learners in 1st-8th grade classrooms with particular emphasis on comprehension, vocabulary, and disciplinary literacy.|Prereq: jr st & admis to SOE; or cons instr.

538 Literacy 3: Introduction to New Literacies. 3 cr. U/G. Examines research based processes for literacy instruction, effects of and approaches for the use of technology on literacy development.|Prereq: jr st, admis to SOE, & CurrIns 537(P); or cons instr.

540 Advanced Field Experience in Early Childhood Education. 3-6 cr. U. Advanced field experience, culmination of pre-student teaching experiences.|Retakable to 9 cr max. Prereq: sr st, admis to SOE & CurrIns 440(P); or cons instr.
541 Principles and Methods of Teaching ESL. 3 cr. U/G. Techniques of introducing ESL at the K-12 level. Teaching of basic language skills, especially listening comprehension and speaking. Curriculum materials and current literature in ESL. Micro teaching provided.|Prereq: jr st and admis to SOE; or cons instr


543 Developing Biliteracy. 3 cr. U/G. Stresses the practical application of theory and research on language development in a bilingual setting. The development of primary language skills is emphasized.|Prereq: jr st or cons instr; admis to School of Educ, or grad st.

544 Improving the Teaching of Reading: (Subtitled). 1-3 cr. U/G. Focuses on instructional problems of teachers in teaching developmental reading. Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.|May be retaken with change in topic to max of 6 cr. Prereq: jr st; teaching experience.

545 Reading in the Content Areas: Middle, Junior, and Senior High School. 2-3 cr. U/G. Survey of reading process and developmental reading in the middle, junior and senior high school. Emphasis on application of instructional techniques relating the use of reading within subject matter fields.|Prereq: jr st; admis to School of Educ or grad st.

546 Language, Content, and Comprehensible Input. 3 cr. U/G. Theories and methods for delivering content to second language learners. Models of sheltered and learning strategies instruction will be explored.|Prereq: jr st or cons instr.


551 Teaching of Language Arts. 1-4 cr. U/G. Survey of curriculum, methods and materials in skills and expressive areas of language, linking theory with practical instructional strategies in both preschool and elementary settings.|Prereq: jr st & admis to School of Educ; or grad st.

552 Teaching Reading, Grades 1-3. 3 cr. U/G. Foundations of reading and instructional strategies which support the development of literacy learning in the primary grades (grades 1-3) with concurrent teaching field experience.|Counts as repeat of 3 cr of CurrIns 506. Prereq: jr st, Admis to School of Educ; or grad st.

553 Teaching Language Arts and Children's Literature, Grades 1-3. 3 cr. U/G. Language arts instruction and children's literature in the middle childhood grades (grades 1-3) with concurrent teaching field experience.|Counts as repeat of 3 cr of CurrIns 506. Prereq: jr st; admis to School of Educ; or grad st.

554 Teaching Reading and Adolescent Literature, Grades 4-8. 3 cr. U/G. Reading instruction and literature for early adolescents, grades 4-8 with concurrent teaching field experience.|Counts as repeat of 3 cr of CurrIns 507. Prereq: jr st; admis to School of Educ; CurrIns 552(P); or grad st.

555 Teaching Language Arts, Grades 4-8. 3 cr. U/G. Language arts instruction in the early adolescent grades, grades 4-8, with concurrent teaching field experience.|Counts as repeat of 3 cr of CurrIns 507. Prereq: jr st; admis to School of Educ; CurrIns 553(P); or grad st.

556 Professional Seminar 1: Foundations of Curriculum and Instruction. 3 cr. U/G. Philosophies of curriculum and instructional models to meet the developmental needs of children in urban contexts.|Prereq: jr st, admis to SOE, Ed Psy 325(C), CurrIns 306(C), & 536(C); or cons instr.
557 Professional Seminar 2: Classroom Management: Theory, Practice and Context. 3 cr. U/G. Addresses the theoretical frameworks, models and goals in classroom management practices in grades 1-8. Prereq: jr st, admis to SOE, CurrIns 556(P) & 307(C); or cons instr.

558 Professional Seminar 3: Building Learning Communities. 3 cr. U/G. Exploration and application of strategies that build positive learning climates/communities in urban classrooms in grades 1-8. Prereq: jr st, admis to SOE, CurrIns 557(P) & 406(C); or cons instr.

560 Improving Mathematics Teaching and Learning: (Subtitled). 1-3 cr. U/G. Focuses on instructional and curricular issues in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered. May be retaken w/chg in topic to 18 cr max. Prereq: jr st or grad st.

561 Issues in Elementary and Middle School Mathematics. 3 cr. U/G. Introduction to the teaching and learning of mathematics at the elementary and middle school levels. Emphasis on curriculum, instructional strategies, and assessment. Prereq: jr st; admis to School of Educ or cons instr or grad st.


565 Pedagogy Labs: (Subtitled). 1 cr. U. Students concurrently or previously enrolled in content-specific courses will study issues of teaching pedagogy related to that content. Retakable w/chg in topic to 6 credit max. Prereq: cons instr.

566 Pedagogy Labs - Linking English Content and Processes with Pedagogy. 1 cr. U. Examines the instructional implications for English content and processes and is taken concurrently with English 201. Counts as repeat of CurrIns 565 with similar topic. Prereq: jr st.

567 Pedagogy Labs - Linking History Content and Processes with Pedagogy. 1 cr. U. Examines the instructional implications for history content and processes and is taken concurrently with Hist 152. Counts as repeat of CurrIns 565 with similar topic. Prereq: jr st.

569 Pedagogy Labs - Linking Mathematics Content and Processes with Pedagogy. 1 cr. U. Examines connections between the content material of mathematics courses Math 175/176/275/276/277/278 and K-12 pedagogical practices. Taken concurrently with one of the courses listed. Prereq: one of the following: 175(C), 176(C), 275(C), 276(C), 277(C) or 278(C).

570 Improving Science Teaching and Learning: (Subtitled). 1-3 cr. U/G. Focuses on instructional and curricular issues in science. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered. Retakeable with change in topic to max of 9 cr. Prereq: jr st; teaching experience.

579 Current Topics in Curriculum and Instruction: (Subtitled). 1-3 cr. U/G. The specific topic will be announced in the Schedule of Classes each time the course is offered. May be retaken with change in topic to max of 9 cr including cr earned under CurrIns 779. Prereq: jr st, cons instr.

580 Mathematics Education: (Subtitled). 1-3 cr. U/G. Analysis of school and classroom practices in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered. May be retaken for cr w/chg in topic. Prereq: jr st or grad st.


593 Supervision of Student Teaching. 1 cr. U/G. Roles and responsibilities of the supervising teacher in planning,

**601 Early Childhood Seminar in Student Teaching. 3 cr. U.** Collaboration around challenges encountered in urban student teaching through a structured inquiry format with peers. | Prereq: sr st, admis to SOE & CurrIns 640(C); or cons instr.

**602 Early Childhood Education. 1-4 cr. U/G.** Basic principles of curriculum planning for young children. Education in nursery schools, day care centers, kindergartens and primary grades. A study of the materials of instruction and techniques of teaching at this level. | Prereq: jr st.

**624 Instructional Trajectories for Fraction Concepts and Operations. 3 cr. U/G.** Examination of mathematical trajectories for teaching fractions with focus on evidence-based instructional and assessment strategies and analysis of curriculum. | Prereq: jr st; teaching experience, or cons instr.

**625 Principles and Practices of Teaching Geometry and Geometric Thinking. 3 cr. U/G.** Examination of instructional sequences for geometry and analysis of teaching strategies for developing and assessing students' geometric thought. | Counts as repeat of CurrIns 560 with topic "Geometry and Geometric Thinking." Prereq: jr st; teaching experience

**626 Principles and Practices of Teaching Algebraic Reasoning. 3 cr. U/G.** Examination of instructional trajectories for algebra and analysis of teaching strategies for developing and assessing students' algebraic reasoning. | Prereq: jr st; teaching experience.

**629 Change and Change Strategies in Education. 1-4 cr. U/G.** This course will involve students in an exploration of individual groups and institutions as these elements relate to change processes in education. Models and strategies will be studied and applied to change problems. | May be retaken to a 4 cr max. Prereq: jr st; teaching experience.

**637 World Language Methods and Materials. 3 cr. U/G.** Basic principles and practical instructional techniques intended to prepare teachers with experiences and background to teach world languages. | Prereq: jr st or cons instr.

**639 Critical Issues and Methods in World Language Education. 3 cr. U/G.** Advanced preparation for teachers of world languages that will equip them for teaching world languages to students from early childhood through adolescence. | Prereq: jr st, CurrIns 637(P) or equiv, or cons instr.

**640 Student Teaching in Early Childhood. 9-12 cr. U.** Full semester experience in an early childhood classroom. | Prereq: sr st; admis to SOE; CurrIns 601(C); CurrIns 540(P); or cons instr.

**640 (effective 09/02/2015) Student Teaching in Early Childhood. 6-12 cr. U.** Full semester experience in an early childhood classroom. | Prereq: sr st; admis to SOE; CurrIns 601(C); CurrIns 540(P); or cons instr.

**642 Teaching Standard English as an Alternate Dialect in Urban Schools. 1-4 cr. U/G.** Offered once per academic year, once every second summer. Linguistic aspects of application of research and scholarship to the problems of teaching standard english in urban schools. Includes recent curricular developments and micro teaching. | Prereq: jr st. Available as grad level only.

**643 Balanced Literacy Instruction in the Elementary School. 1-3 cr. U/G.** Study and implementation of assessment and teaching strategies for balanced literacy instruction including phonics. | Retakable to max of 6 cr. Not open for cr to students with CurrIns 343(ER) or equiv. Prereq: jr st.

**644 Enhancing Literacy Learning for Diverse Learners: [Subtitled]. 3 cr. U/G.** Teaching reading and writing to diverse learners. | Jointly offered with & subtitles count as repeat of same title of ExcEduc 644. CurrIns 644 & ExcEduc 644 may be retaken with change of topic to combined 9 cr max. Prereq: currently teaching with at least 2 yrs experience; cons instr.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Requires</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>646</td>
<td>University of Wisconsin System Reading Research Symposium</td>
<td>1-3 cr.</td>
<td>U/G</td>
<td>Updates students on most recent reading research. Students are required to</td>
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<td>attend the two-day symposium. May be retaken for credit. Prereq: jr st.</td>
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<td>647</td>
<td>Early Reading Empowerment: Part 1</td>
<td>3 cr.</td>
<td>U/G</td>
<td>First semester of a 2 semester practicum designed for practicing teachers;</td>
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<td>develop expertise in assessing and teaching reading to struggling early literacy learners. Prereq: currently teaching, at least 2 years teaching experience, cons instr.</td>
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<tr>
<td>648</td>
<td>Early Reading Empowerment: Part 2</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Second semester of a 2 semester practicum designed for practicing teachers;</td>
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<td></td>
<td>develop expertise in assessing and teaching reading to struggling early literacy learners. Prereq: CurrIns 647(P), currently teaching, at least 2 years teaching experience, cons instr.</td>
</tr>
<tr>
<td>649</td>
<td>Children's Literature</td>
<td>1-4 cr.</td>
<td>U/G</td>
<td>To acquaint students with the wide range of good books for children and to</td>
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<td>provide wide reading experiences in children's literature; evaluation and use of current materials. Prereq: jr st &amp; admis to School of Educ; or grad st.</td>
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<tr>
<td>650</td>
<td>Reading Interests of Adolescents</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Recently published literature for adolescents - types, themes, issues related to school programs. Prereq: jr st.</td>
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<tr>
<td>651</td>
<td>Literature for the Young Child</td>
<td>3 cr.</td>
<td>U</td>
<td>Examines literature with young children to develop verbal fluency, aesthetic</td>
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<td>awareness and interest in reading. Rationales, specific instructional</td>
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<td>strategies, illustration styles and genres are discussed. Prereq: soph st.</td>
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<tr>
<td>653</td>
<td>Children's Literature: The Past Five Years</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Analysis of children's books published in the past five years. Arranged by</td>
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<td>genres, this course considers issues, trends, evaluative criteria, and</td>
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<td>classroom uses of books. Prereq: jr st; CurrIns 649 or equiv.</td>
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<tr>
<td>655</td>
<td>Applied Educational Linguistics</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Explanation of linguistic principles which can be applied to language-based</td>
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<td>activities in the classroom and which can be useful in solving language-</td>
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<td>learning problems. Prereq: jr st or cons instr.</td>
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<tr>
<td>657</td>
<td>Approaches to Teaching and Assessing Texts in the Secondary Schools</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Pedagogy and assessment of literature and other texts and their classroom</td>
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<td>applications: canonical and diverse literary selections; literary critical</td>
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<td>theory. Prereq: jr st.</td>
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<tr>
<td>658</td>
<td>Teaching and Assessing English</td>
<td>3 cr.</td>
<td>U/G</td>
<td>The objectives, materials, techniques and assessments of teaching English.</td>
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<td>Covers language and writing methods. Prereq: jr st, Admis to SOE &amp; CurrIns 657(P); or grad st.</td>
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<tr>
<td>659</td>
<td>Teaching and Assessing Grammar to Enrich Writing</td>
<td>2 or 3 cr</td>
<td>U/G</td>
<td>Current research about teaching grammar, and the historical, social, and</td>
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<td>political consequences associated with various approaches to grammar</td>
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<td>664</td>
<td>Dramatizing Literature in Elementary Classrooms</td>
<td>1-4 cr.</td>
<td>U/G</td>
<td>Nature of creativity in children; basic principles of informal playmaking,</td>
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<td>including movement, mime, characterization, dialogue, and conflict. Using</td>
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<td>children's ideas to develop literature-based dramatizations. Prereq: jr st.</td>
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<tr>
<td>668</td>
<td>Introduction to Instructional Technology</td>
<td>1-4 cr.</td>
<td>U/G</td>
<td>The utilization of instructional technology. Emphasis is placed upon the</td>
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<td>effective integration and utilization of instructional media as based upon a systems approach to organization. Laboratory exercises included. Prereq: jr st. Not available for grad cr.</td>
</tr>
<tr>
<td>675</td>
<td>Making Schools Work: Promoting Positive Change in Chronic Problem Behavior</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Methods of applying system theory, cybernetics, and communication theory</td>
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<td>concepts in classrooms and schools to help solve recurring interpersonal</td>
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<td>problems and improve educational effectiveness. Prereq: grad st or cons instr.</td>
</tr>
</tbody>
</table>
UWM Undergraduate Catalog 2014-2015

UWM Milton and Lillian Peck School of the Arts

DANCE Dance

This course information produced at 01:00 on 07/30/2015.

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[ Up to Undergraduate Catalog Department ]

103 Introduction to Iyengar Yoga. 2 or 3 cr. U. Iyengar Yoga method and philosophy presented in a format to enrich artistic appreciation of Yoga as a physical artform.|May be retaken to max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr. Prereq: none.

110 Introduction to the Art of Dance. 3 cr. U. Basic technique, implementation, short compositions, lectures, films and discussions on dance history, philosophy, theory, and survey of current trends.|May be retaken to a max of 2 sem. Prereq: none.

111 Ballet I. 2-3 cr. U. This beginning level class introduces ballet principles for those with little or no previous studio training. Alignment, verticality, and basic ballet movements are stressed.|May be retaken to a max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr. Prereq: none.

112 (effective 09/02/2015) Contemporary Dance Practice: Ballet Tradition II. 2-3 cr. U. A continuation of Dance 111.|May be retaken to max of 3 sem. Prereq: Dance 111(P) or Dance major.

112 Ballet II. 2-3 cr. U. A continuation of Dance 111.|May be retaken to max of 3 sem. Prereq: Dance 111(P) or Dance major.

113 Modern Dance Technique I. 2-3 cr. U. Introduction to basic elements and principles of modern dance. Anatomically correct use of body, moving with awareness, and use of varied movement qualities are stressed.|Dance majors register for 2 cr. Non-majors register for 3 cr. May be retaken to max of 9 cr. Prereq: none.

114 (effective 09/02/2015) Contemporary Dance Practice: Modern Tradition II. 2-3 cr. U. Continuation of Dance 113.|May be retaken to max of 9 cr. Prereq: Dance major or Dance 113(P).

114 Modern Dance Technique II. 2-3 cr. U. Continuation of Dance 113.|May be retaken to max of 9 cr. Prereq: Dance major or Dance 113(P).

115 Jazz Dance I. 1-3 cr. U. Basics of percussive and lyrical jazz styles.|May be retaken to a max of 3 sem. Prereq: none.

116 Jazz Dance II. 1-3 cr. U. A continuation of Dance 115.|May be retaken to max of 3 sem. Prereq: Dance 115(P) or
Cons instr.

117 Tap I. 1-3 cr. U. The basics of tap dancing designed to instill rhythm and a sense of style.|May be retaken to max of 2 sem. Prereq: none.


123 African Dance & Diaspora Technique II. 2-3 cr. U. A continuation of Dance 122.|May be retaken to max of 3 sem. Prereq: Dance 122(P) or cons instr.

133 Creative Movement I. 2-3 cr. U. A class to develop the creative potential of each student in rhythm and movement.|May be retaken to max of 9 cr. Dance BFA majors enroll in for 2 cr. Dance BA majors and non-majors enroll for 3 cr. Prereq: none.

135 Introduction to Dancemaking Skills. 3 cr. U. A broad introduction to contemporary dancemaking choreographic and improvisational skills.|Prereq: Dance major.

192 Freshmen Seminar. 0 cr. U. Seminar to orient Dance majors to UWM, PSOA, Dance Department, Milwaukee dance community, and successful life as a dancer.|Fee for 1 cr assessed. Prereq: Dance major.

192 (effective 09/02/2015) Freshmen Seminar. 1 cr. U. Seminar to orient Dance majors to UWM, PSOA, Dance Department, Milwaukee dance community, and successful life as a dancer.|Prereq: Dance major.

209 Dance Production. 2 cr. U. Introduction to dance production theory, design and practical skills.|Prereq: Dance major or cons instr.

211 (effective 09/02/2015) Contemporary Dance Practice: Ballet Tradition III. 2-3 cr. U. A continuation of Dance 112.|May be retaken to max of 9 cr. Prereq: Dance 112(P) or cons instr.

211 Ballet III. 2-3 cr. U. A continuation of Dance 112.|May be retaken to max of 9 cr. Prereq: Dance 112(P) or cons instr.

212 (effective 09/02/2015) Contemporary Dance Practice: Ballet Tradition IV. 2-3 cr. U. A continuation of Dance 211.|May be retaken to max of 9 cr. Prereq: Dance 211(P) or cons instr.

212 Ballet IV. 2-3 cr. U. A continuation of Dance 211.|May be retaken to max of 9 cr. Prereq: Dance 211(P) or cons instr.

213 Modern Dance Technique III. 2-3 cr. U. Continuation of Dance 114.|May be retaken to max of 9 cr. Prereq: Dance 114(P) or cons instr.

213 (effective 09/02/2015) Contemporary Dance Practice: Modern Tradition III. 2-3 cr. U. Continuation of Dance 114.|May be retaken to max of 9 cr. Prereq: Dance 114(P) or cons instr.

214 Modern Dance Technique IV. 2-3 cr. U. A continuation of Dance 213.|May be retaken to max of 9 cr. Prereq: Dance 213(P) or cons instr.

214 (effective 09/02/2015) Contemporary Dance Practice: Modern Tradition IV. 2-3 cr. U. A continuation of Dance 213.|May be retaken to max of 9 cr. Prereq: Dance 213(P) or cons instr.

217 Tap II. 2-3 cr. U. Continued exploration of tap dance technique. Study of complex rhythmic combinations and movements.|May be retaken to a max of 3 sem. Prereq: Dance 117 (P) or cons instr.
219 Arts in Community Service. 3 cr. U. Students acquire means to assess personal learning and techniques to assess impact of their service-learning work on community partner organizations. Prereq for regis in service-learning component of a dance course. |Prereq: none.

220 Body Sense. 3 cr. U. This course intends to provide an environment for creative exploration of individual body awareness, integration of body-mind and experiencing the body in space. |May be retaken to max of 6 cr. Prereq: none.

221 Body Sense II. 2-3 cr. U. Movement exercises from varied theories; intensified self-observation and documentation of experience. Stress on intrapersonal, interpersonal, emotional, and existential intelligences. |May be retaken to max of 2 sem. Prereq: Dance 220(P).

222 African Dance & Diaspora Technique III. 2-3 cr. U. A continuation of Dance 123. |Prereq: Dance 123(P) or cons instr.

223 African Dance & Diaspora Technique IV. 2-3 cr. U. A continuation of Dance 222. |Prereq: Dance 222(P) or cons instr.

231 Music and Dancers I. 3 cr. U. Beginning study of the relationship between dance and music. Emphasis on musical awareness, development of listening skills and the application of such skills to movement experiences. |Prereq: Dance or Inter-Arts major or cons instr.

233 Improvisation for Dancemaking. 3 cr. U. A structured exploration of movement invention process, and structuring movement sequences through use of movement games and systems. |May be retaken to max of 2 sem. Prereq: Dance major or cons instr.

250 Sophomore Seminar. 0 cr. U. Discussion of topics for 2nd year Dance majors. |Fee for 1 cr assessed. Prereq: Dance 192(C).

251 (effective 01/25/2016) Laban Movement Analysis I. 3 cr. U. Exploration of the dynamics of movement, including space/time weight flow combinations, the body's approach to space, basic spatial forms (dimensional cross, planes, cube, tetrahedron), introduction to phrase writing. |Prereq: successful completion of QL-A.

251 Laban Movement Analysis I. 3 cr. U. Exploration of the dynamics of movement, including space/time weight flow combinations, the body's approach to space, basic spatial forms (dimensional cross, planes, cube, tetrahedron), introduction to phrase writing. |Prereq: Dance major or cons instr.

261 Junior Seminar. 0 cr. U. Discussion of topics for 3rd year Dance majors. |Fee for 1 cr assessed. Prereq: Dance 250(C).

309 Dance Production Practicum. 1 cr. U. Dance 309 is a continuation of Dance 209 focusing on the application of an array of production skills. |Prereq: Dance 209(P) or cons instr.

310 Jazz III. 2-3 cr. U. Continued study of jazz dance vocabulary and movement concepts. |May be retaken to a max of 3 sem. Prereq: Dance 116 (P) or cons instr.

311 (effective 09/02/2015) Contemporary Dance Practice: Ballet Tradition V. 2-3 cr. U. Continuation of Dance 212. |May be retaken to max of 9 cr. Prereq: Dance 212(P) or cons instr.

311 Ballet V. 2-3 cr. U. Continuation of Dance 212. |May be retaken to max of 9 cr. Prereq: Dance 212(P) or cons instr.

312 (effective 09/02/2015) Contemporary Dance Practice: Ballet Tradition VI. 2-3 cr. U. Continuation of Dance 311.
311. May be retaken to max of 9 cr. Prereq: Dance 311(P) or cons instr.

313 History of Dance in the African Diaspora. 3 cr. U. The dance traditions of Africa and the Diaspora. Prereq: soph st or cons instr.

313 (effective 09/02/2015) History of Dance in the African Diaspora. 3 cr. U. The dance traditions of Africa and the Diaspora. Prereq: successful completion of OWC-A

314 (effective 09/02/2015) Contemporary Dance History. 3 cr. U. Developments in modern dance from 1890's to the present with emphasis on comparative philosophies. Prereq: successful completion of OWC-A

314 Contemporary Dance History. 3 cr. U. Developments in modern dance from 1890's to the present with emphasis on comparative philosophies. Prereq: Dance major or cons instr.

315 (effective 09/02/2015) History of the American Musical Theater. 3 cr. U. Introduction to the origins, development and evolution of the American musical theater. Prereq: successful completion of OWC-A.

315 History of the American Musical Theater. 3 cr. U. Introduction to the origins, development and evolution of the American musical theater. Prereq: none.

317 (effective 09/02/2015) Contemporary Dance Practice: Modern Tradition V. 2-3 cr. U. Continuation of Dance 214. May be retaken to max of 9 cr. Prereq: Dance 214(P) or cons instr.

317 Modern Dance Technique V. 2-3 cr. U. Continuation of Dance 214. May be retaken to max of 9 cr. Prereq: Dance 214(P) or cons instr.

318 Modern Dance Technique VI. 2-3 cr. U. Continuation of Dance 317. May be retaken to max of 9 cr. Prereq: Dance 317(P) or cons instr.

318 (effective 09/02/2015) Contemporary Dance Practice: Modern Tradition VI. 2-3 cr. U. Continuation of Dance 317. May be retaken to max of 9 cr. Prereq: Dance 317(P) or cons instr.

319 Dance Service-Learning. 1-3 cr. U/G. Service-Learning as field work in a community partnership setting under supervision of Dance faculty member. Conc reg in dance course which allows Dance 319 component by cons instr. May be retaken to max of 4 sem or 9 cr. Prereq: jr st; Dance 219(P), & cons instr.

320 Rituals and Culture. 2-3 cr. U. Sources, dimensions, and elements of ritual; values being ritualized. Creating ritual components through storytelling, singing/chanting, movement/gestures, wearing/carrying special clothing/objects. May be retaken to max of 2 sem. Prereq: soph st.

321 Alexander Technique for the Performer. 2-3 cr. U. Introduction to the principles of Alexander Technique as it applies to performing artists and new media collaborations. Dance Majors and Somatics Minors enroll for 2 cr; all other majors enroll for 3 cr. May be retaken to max of 6 cr. Prereq: none.

322 African Dance & Diaspora Technique V. 2-3 cr. U. A continuation of Dance 223. Prereq: Dance 223(P) or cons instr.

323 Body Conditioning: Pilates Method. 2-3 cr. U. Supervised exercises providing special training for strength, balance, and endurance as well as anatomical study. May be retaken to max of 6 cr. Prereq: none.

325 Pointe and Men's Technique I. 1 cr. U. The study of basic technique of dance sur pointe and mens technique. May be retaken to max of 2 sem. Prereq: Dance major or cons instr.

327 Dance for the Musical Theatre I. 2-3 cr. U. Study of the role and use of dance in theatrical productions. May be
327 (effective 09/02/2015) **Dance for the Musical Theatre I. 2-3 cr. U.** Study of the role and use of dance in theatrical productions. May be retaken to a max of 3 sem. Prereq: Dance 111(P) and 115(P), or cons instr.

331 **African Percussion Ensemble. 3 cr. U.** Hands-on experience in drumming and percussion techniques from Africa and the Diaspora. Prereq: Dance or Inter-Arts major or cons instr.

350 **Senior Seminar. 0 cr. U.** Discussion of topics for graduating Dance majors. Fee for 1 cr assessed. Prereq: Dance 261(C).

352 (effective 09/02/2015) **Digital Media Portfolio for Performers. 3 cr. U.** Introduction to digital tools for technique and choreographic portfolios. Prereq: jr st or cons instr

352 **Digital Media Portfolio for Dancers. 1 cr. U.** Introduction to digital tools for technique and choreographic portfolios. May be retaken to a max of 2 cr. Prereq: jr st or cons instr


361 **Dance in Elementary Education. 3 cr. U.** A study of the relationship of dance experiences to the growth and development of the elementary school child. Discussion, lectures, experimentation and analysis of dance materials. Suitability of materials for various age groups and situations. Teaching of children's dance classes. Prereq: Dance or Education major or cons instr.

362 **Dance in Secondary Education and College. 3 cr. U.** Methods and philosophy of teaching dance in the secondary school. Theory and practice in solving problems arising in practical teaching situations. Observation of dance classes. Prereq: Dance major or cons instr.

370 **World Movement Traditions: (Subtitled). 2-3 cr. U.** Dance and movement traditions of world cultures; different cultures each semester. May be retaken to max of 2 sem per topic. Prereq: none.

371 **Applied Anatomy. 3 cr. U.** Principles and use of the mind-body construct to aid in understanding movement through ideo-kinetics. Prereq: dance majors, jr st or cons instr.

403 **Intermediate Yoga For Dancers. 2-3 cr. U/G.** A continuation of Dance 103 stressing the performance and integration of more advanced asanas. May be retaken to a max of 2 sem. Prereq: Dance 103, or grad st in Dance component of MFA prog, or cons instr.

411 **Field Work in Dance. 2 cr. U.** Dance education field experiences in schools, agencies and institutions. Prereq: Dance majors and Dance 361(P) or 362(P) & cons instr.

412 **Dance Composition I. 3 cr. U.** Resources for discovering and inventing movement material, and for developing concepts and structures to give this material perceptual, emotional validity. Prereq: Dance major or cons instr.

413 **Dance Composition II. 3 cr. U.** A continuation of Dance 412. Prereq: Dance 412(P) or cons instr.

414 **Dance Composition III. 2-3 cr. U.** Investigation of advanced choreographic, musical, technical challenges in making site-specific performance work. Prereq: Dance 412(P) & 413(P) or cons instr.

415 **Movement and New Media Collaborations. 3 cr. U.** Required collaborative new media composition course in the IAT Post-Portfolio Core. Integration of movement and new media. Prereq: Dance or Inter-Arts/IAT major or cons instr.
420 Creating Dance in the Community. 3 cr. U. Understanding and mastering artistic and collaborative/interactive skills for use in community and artistic settings.|Prereq: jr st; Dance 320(P).

420 (effective 09/02/2015) Creating Dance in the Community. 3 cr. U. Understanding and mastering artistic and collaborative/interactive skills for use in community and artistic settings.|Prereq: Dance 219(P) or cons instr.

421 Alexander Technique Practicum. 2 cr. U. Dance 421 is a continuation of Dance 321 focusing on more in-depth study and application of Alexander Technique for performers.|May be retaken to max of 3 sem. Prereq: Dance 321(P) or cons instr.

427 Dance for the Musical Theatre II. 2-3 cr. U. Continued advanced study of dance for theatrical productions. Includes analysis of signature dances from Broadway and film musicals.|May be retaken to a max of 3 sem. Prereq: Dance 327(P) or cons instr.

441 History of African Dance Theory I. 3 cr. U. Aesthetics and movement sensibilities throughout the African Diaspora.|Prereq: Dance 313(P) or cons instr.

460 (effective 09/02/2015) Teaching Dance in Community Settings. 3 cr. U. Prepare dance artists to teach and create dance experiences for people in all ages of the human lifespan, and in a wide range of community settings.|Prereq: Dance or Education major or cons instr.

485 Student Teaching in Dance in Elementary Schools. 1-9 cr. U. Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.|Prereq: BFA in Dance or equiv & admis to teaching cert prog in Dance.

486 Student Teaching in Dance in Secondary Schools. 1-9 cr. U. Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.|Prereq: BFA in Dance or equiv & admis to teaching cert in Dance.

489 Workshop in Dance: (Subtitled). 1-6 cr. U. An opportunity for students to deal independently in diversified creative aspects of dance such as choreo-cinema or environmental dance.|May be retaken w/chg in topic to 9 cr max. Prereq: Dance major or cons instr.

490 Repertoire and Ensemble. 0-3 cr. U. Practicum in group performance in dance productions, touring groups and performances related to the department. Includes original works from classical and contemporary repertoire.|When taken for 0 credit, fee for 1 credit assessed. Retakable to 6 cr max. Prereq: Dance major or cons instr.

491 Repertory/Student Choreographer. 0-1 cr. U. Practicum in performing with undergraduate student choreographers on senior projects or composition showings.|When taken for 0 credit, fee for 1 credit assessed. Retakable to 4 cr max. Prereq: Dance major or cons instr.

497 Study Abroad in Dance: (Subtitled). 1-12 cr. U/G. Interdisciplinary and foundational learning in the area of world dance through interactions with and explorations in differing cultures and areas.|May be retaken with change in topic to max of 12 cr. Prereq: jr st or cons instr; & acceptance for Study Abroad Prog.

522 African Dance & Diaspora Technique VI. 2-3 cr. U. A continuation of Dance 322.|Prereq: Dance 322(P) or cons instr.

541 History of African Dance Theory II: (Subtitled). 3 cr. U. Further study in the aesthetics and movement sensibilities throughout the African Diaspora.|Retakeable w/chg in topic to 9 cr max. Prereq: Dance 441(P) or cons instr.

601 (effective 09/02/2015) Senior Project. 2-4 cr. U. Composition of an original work to be presented for performance, or planning and implementation of a major dance project on the campus or in the community.|Retakeable to 4 cr max. Prereq: Dance major, Somatics minor or cons instr.
601 Senior Project. 2-4 cr. U. Composition of an original work to be presented for performance, or planning and implementation of a major dance project on the campus or in the community. | Retakeable to 4 cr max. Prereq: Dance major or cons instr.

623 Body Conditioning: Pilates Method II. 2-3 cr. U. Concentrated and advanced study of the Pilates Method incorporating Pilates equipment to enhance skills developed in Dance 323. | May be retaken for a max of 3 sem. Prereq: Dance 323 (P) or cons instr.

699 Independent Study in Dance. 1-4 cr. U. Individual program of supervised study in Dance under the direction of the instructor. | May be retaken to max of 12 cr. Prereq: cons instr.

This course information produced at 01:00 on 07/30/2015.
## A. General Economics

### 100 Introductory Economics. 3 cr. U.
A one semester survey of current national and international economic problems. Useful as preparation for Econ 103 and 104. Not required of economics majors. Not open for cr to students who have cr in Econ 103 & 104. Prereq: none.

### 103 Principles of Microeconomics. 3 cr. U.
Economic reasoning; price determination, specialization, and efficiency. Applications include international trade, antitrust, environmental protection, highway congestion. Prereq: none.

### 104 Principles of Macroeconomics. 3 cr. U.
Composition of national income, interrelationship of sectors; determination of national income and productivity; relationship between national income, inflation, money, interest rates; U.S. global economies interaction. Prereq: none.

### 110 Economics of Personal Finance. 1 cr. U.
Economics of personal financial management; development of successful financial skills; activity-based course with assignments emphasizing students' individual situations. No cr for students who have cr in Econ 258 w/same topic. Prereq: none.

### 193 First-Year Seminar: (Subtitled). 3 cr. U.
The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

### 199 Independent Study. 1-3 cr. U.
For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

### 210 Economic Statistics. 3 cr. U.
Basic probability and statistics; numerical and graphical methods of describing data, elementary probability, random variables and probability distributions, hypothesis testing, simple linear regression. Prereq: Math 105(P), or Math 108(P), or math placement level B or higher.

### 248 Economics of Discrimination. 3 cr. U.
Use of economic theory to examine the history, current status, and policies regarding various minority groups in the United States. Applications include education, housing, jobs. Prereq: none.
1. **258 Selected Topics in Economics: (Subtitled). 1-3 cr. U.** Focus on special topics not normally discussed in detail in other existing courses. Retakable w/chg in topic to 9 cr max. Prereq: soph st; cons instr.

2. **289 Internship in Economics, Lower Division. 1-6 cr. U.** Application of basic principles of economics in a business, organizational, educational, political, or other appropriate setting. One cr granted for academic work based on 40 hrs in the internship. Retakable to 6 cr max. Prereq: 100-level course in Econ; 2.25 gpa; cons supervising faculty member.

3. **297 Study Abroad: (Subtitled). 1-12 cr. U.** Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

4. **299 Ad Hoc: (Subtitled). 1-6 cr. U.** Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

5. **381 Honors Seminar: (Subtitled). 3H cr. U.** Examination of current economic issues such as energy, environment, poverty, and human resource development. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

6. **458 Selected Topics in Economics: (Subtitled). 3 cr. U/G.** Variable content course designed to focus on special topics not normally discussed in detail in other existing courses. Retakable w/chg in topic. Prereq: jr st & cons instr.

7. **489 Internship in Economics, Upper Division. 1-6 cr. U.** Application of advanced principles of economics in a business, organizational, educational, political, or other appropriate setting. One cr granted for academic work based on 40 hrs in the Internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Econ; 2.25 gpa; cons supervising faculty member.

8. **497 Study Abroad: (Subtitled). 1-12 cr. U/G.** Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

9. **499 Ad Hoc: (Subtitled). 1-6 cr. U.** Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

10. **697 Organizational Administration Capstone. 3 cr. U.** Internship, case analysis, or independent study that synthesizes course work in graded paper. Commun 697, Econ 697, & Sociol 697 are jointly offered; they count as repeats of one another. Prereq: sr st; declared org adm major; satisfaction of GER English Composition competency req; cons instr.


### B. Economic Theory


13. **302 Intermediate Macroeconomics. 3 cr. U.** Analysis of savings, production, investment and other aggregates in the national and international economy as related to the determination of national income, inflation, and unemployment. Prereq: Econ 104(P).
404 (453) Economic Applications of Game Theory. 3 cr. U. Strategic interaction among decision makers. Studies multi-party decision problems of a firm, a government, or a country. |Prereq: jr st; Econ 301(R) or cons instr.

506 Mathematical Economics I. 3 cr. U/G. Mathematical techniques used in economic analysis, including calculus and matrix algebra. Applications include optimizing behavior of firms and consumers. |Prereq: jr st; Econ 301(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).

606 Mathematical Economics II. 3 cr. U/G. Difference and differential equations applied to economic variables such as human capital, consumption, learning, energy use, and pollution. Essential preparation for graduate work. |Prereq: jr st; Econ 506(P).

C. Quantitative Methods

310 Research Methods for Economics. 3 cr. U/G. Statistical research methods, especially cross-section and time-series regression, applied to evaluation of empirical literature and a directed research project. |Not open for cr to students who have cr in Econ 513(531). Prereq: jr st; Econ 210(P) or cons instr.


413 Statistics for Economists. 3 cr. U/G. Elements of probability; joint marginal and conditional distributions; measures of central tendency and dispersion, calculus of expectations; central limit theorem. Estimation and testing of economic relations. |Prereq: jr st; Econ 210(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).

513 (531) Introduction to Econometrics. 3 cr. U. Multiple regression, generalized least squares, specification analysis, multicollinearity, multiple equations including simultaneous equations. |Prereq: jr st; Econ 413(P).

D. The Economics of Public Policy


328 (428) Environmental Economics. 3 cr. U. Evaluating public policy of environmental and natural resources. Regulation of pollution, endangered species, natural resources, and other case studies. |Prereq: Econ 103(P).

426 Public Economics. 3 cr. U/G. Economic analysis of government and policy, including taxation and expenditures, policy responses to market failures, redistributional programs, and related topics. |Prereq: jr st; Econ 104(P) & 301(P).

450 (221) Health Economics. 3 cr. U/G. Efficiency of medical care, health insurance and access to care, alternative models of health care delivery, health behaviors and public policy. |Prereq: jr st; Econ 103(P).

525 The Economics of Water. 3 cr. U/G. Comprehensive development of water resource economics for engineers, scientists, and economists; analysis of the public and private sector economics of water resources. |Prereq: jr st; Econ 103(P); Math 231(P); a statistics course; or cons instr.

E. Strategy, Law, and the Economy
231 Analysis of American Industries. 3 cr. U. Performance of key U.S. industries (e.g. education, beer, cars, medicinal drugs, radio, television, sports, steel, food, music recording); their responses to changing national/international economic conditions.|Prereq: soph st; Econ 103(P).


335 Economics of Antitrust Laws. 3 cr. U. Examination of laws intended to increase competition; their evolution through landmark cases involving price fixing, mergers toward monopoly, and unfair competition including IBM, AT&T, Microsoft.|Prereq: Econ 103(P).

432 (452) Industrial Organization. 3 cr. U/G. Economic analysis of asymmetric information, barriers to competitive entry, licensing, pricing practices/transactions costs; application to markets for insurance, computers, health care, used cars, food.|Prereq: jr st; Econ 301(P).

F. Labor Economics


447 (451) Labor Economics. 3 cr. U/G. The economics of unions, minimum wage, poverty and welfare programs; influence of international trade on domestic labor markets. Study of labor supply and labor demand.|Prereq: jr st; Econ 301(P).

448 (478) Economics of Human Resources. 3 cr. U/G. The economics of education, training, discrimination, and workplace incentives. Study of hiring, promotion, and job search.|Prereq: jr st; Econ 103(P) or cons instr.

G. International Economic Relations

351 Introduction to International Economic Relations. 3 cr. U. International economics and finance, determinants and structure of international trade, commercial policy, foreign exchange markets, and balance of payments.|Not open for cr to students who have cr in both Econ 454 & 455. Prereq: Econ 100(P); or both 103(P) & 104(P).


455 International Finance. 3 cr. U/G. International monetary system; spot and foreign exchange markets; balance of payments; international adjustment mechanisms; international finance policy; history and institution.|Prereq: jr st; Econ 302(P).

This course information produced at 01:00 on 07/30/2015.

[ College of Letters and Science Home Page ]
University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
School of Education

EDUC Education-Interdepartmental

This course information produced at 01:00 on 07/30/2015.
100 Community Education I. 3 cr. U. Allows community education majors to earn credits for their prior professional education experiences. [Cr/no cr only. Prereq: Admis to CED.]

101 Community Education II. 1-15 cr. U. Second semester lower division curriculum: includes development of prior educational experience statement, personal goal analysis, learning agreement, continued acquisition of skills and understandings leading to competence, practice. [Less than 15 cr available to students possessing some equivalent skills and/or understandings. Prereq: Ed Pol 100 or cons instr.]

111 (effective 09/02/2015) Strategies for Community Engagement in Urban Communities. 3 cr. U. Basic techniques of strategy development for implementing community programs. [Prereq: none.]

111 Organizing for Social Action in Urban Communities. 3 cr. U. Basic techniques of strategy development for implementing community programs. [Prereq: none.]

112 Introduction to Community Education. 3 cr. U. This course will examine the history of community education and discuss the role of education within a community setting. [Prereq: none.]

113 (403) The Milwaukee Community. 3 cr. U. An overview of communities and neighborhood groups in Milwaukee. [Prereq: none.]

114 Community Problems. 3 cr. U. This course will examine how social problems impact upon communities and neighborhoods, how they are defined, and how these definitions influence social policies and programs. [Prereq: none.]

115 Introduction to Community Leadership. 3 cr. U. Course uses a series of biographies and autobiographies to examine how the individual has interfaced - both as leader and participant - with twentieth century mass movements. [Prereq: none.]

179 Special Topics in Community Education: 1-3 cr. U. [May be retaken with content change to 12 cr max. Prereq: none.]

200 Community Education III. 1-15 cr. U. Third semester lower division curriculum: emphasizes acquisition of skills and understandings leading to basic competence as set forth in student learning agreements. Includes fieldwork.
practice. | Variable cr based on skills & understanding to be acquired & nature of practice. Prereq: Ed Pol 101 or cons instr.

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201 **Community Education IV.** 1-15 cr. U. Fourth semester of lower division curriculum: emphasizes final development of skills and understandings leading to basic competence as set forth in student learning agreements and continuation of fieldwork practice. Includes final evaluation of basic competence. | Prereq: Ed Pol 200 or cons instr.

202 **Community Service Volunteer.** 1-6 cr. U. | Cr/no cr only. May be retaken to max of 6 cr. Prereq: none.

203 **Communities and Neighborhoods in America.** 3 cr. U. Students will construct a survey of their neighborhoods, examine theories of community structure, and analyze neighborhood improvement movements. Fulfills Ed Pol 113 req for CED. | Prereq: none.

212 **Educational Issues in Spanish Speaking Communities.** 3 cr. U. This course presents an overview of the educational issues in the Spanish-speaking communities in the United States and how these issues affect the total society. | Prereq: none.

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279 **Current Topics in Educational Policy and Community Studies: (Subtitled).** 1-3 cr. U. Variable content course. Specific topic announced in the Schedule of Classes. | May be retaken with change in topic to max of 9 cr. Prereq: jr st.

297 **Study Abroad: (Subtitled).** 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

299 **Independent Reading.** 1-3 cr. U. For the benefit of undergraduate students unable to secure needed content in regular courses. | May be retaken to max of 6 cr. Prereq: cons instr.

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302 **Approaches to Relationships in the Child Care Setting.** 3 cr. U. Communication and conflict resolution in relationships in the child care setting, emphasizing parent-child, teacher-child, teacher-teacher and parent-teacher relationships. | Prereq: Commun Ed majors, cons advisor; others, jr st or cons instr.

315 **Group Process and Civic Engagement: (Subtitled).** 1-3 cr. U. Explore group process and identity and relate these issues to future civic engagement for emerging student leaders. | Not open to students with cr in Ed Pol 279 Emerging Leaders topics. Retakable to 4 cr max. Prereq: none.

375 **Cultural Foundations of Education.** 3 cr. U. Critical examination of cultural influences in American society as they affect education. | Prereq: soph st or cons instr.

377 **Conceptual and Development Formulation for Prior Educational Experience.** 3-6 cr. U. | C/NC only. May be retaken to 12 cr max.

379 **Current Topics in Community Education: (Subtitled).** 1-6 cr. U. The specific topics and prerequisites will be announced in the Schedule of Classes each time the course is offered. | May be retaken with change in topic to max of 12 cr. Prereq: jr st or cons instr.

381 **Introduction to Child Care: (Subtitled).** 3 cr. U. An introductory course for students who are new to the field of child care. Enables students to begin working effectively with young children. | Retakable w/topic chg to 6 cr max. Prereq: none.

383 (183) **Child Care Programming: (Subtitled).** 1-3 cr. U. Study of child care programming as it relates to the child's social milieu: family, community, and child care center. Comparative examination of child care programs and their supporting theories. | Retakable w/topic chg to 6 cr max. Prereq: none.

409 **Fieldwork/Practicum in Education and the Community.** 1-6 cr. U. Advanced fieldwork/practicum for students
to acquire skills for educational and community practice; credits are prorated--100 hours of fieldwork for 3 crs, 200 hours for 6 crs, etc. May be retaken to 6 cr max. Prereq: Comm Ed majors only.

411 Conflict and Change in Community-Based Organizations. 3 cr. U. Examines the role of bargaining and conflict in community-based educational change, various approaches to bargaining and conflict, and their appropriateness in various settings. Prereq: jr st or cons instr.

416 Analysis of Child Care Environments. 3-6 cr. U. Introduces students to a variety of special designs for child care settings and to an understanding of evaluation process for environmental changes. Prereq: Comm Ed majors-CONS adv; others-jr st or cons instr.


460 The Chicano Experience. 3 cr. U. This course surveys important issues shaping the Chicano experience in U.S. society by focusing on immigration, the Barrio, Repatriation, Zoot Suit, Chicano-police riots, etc. Prereq: none.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, contents, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st, cons instr, acceptance for Study Abroad Prog.

499 Independent Reading. 1-3 cr. U. May be retaken for cr. Prereq: jr st; cons instr.

500 Sociology and Policy of Urban Communities and Schools. 3 cr. U/G. Selected contemporary social issues analyzed for their bearing on urban communities and schools. Prereq: jr st.

501 Concepts in Community Organizing: Conflict and Change. 3 cr. U/G. Concepts informing community organizing or collective action for community change in the tradition of Saul Alinsky and related organizers. Introduces concepts such as "cutting an issue," "leadership," "targets." Prereq: jr st or cons instr.

506 Research Techniques for Community Organizers and Community Educators. 3 cr. U. Introduction to basic research techniques and the specific skills needed for the community organizer and/or educator. Prereq: jr st.

507 Action Research on Milwaukee Institutions. 3 cr. U/G. Examination and analysis of the organization, philosophy, and history of specific Milwaukee institutions. Emphasis placed on how these institutions affect the lives of community residents and appropriate alternatives to current arrangements. Prereq: jr st or cons instr.

508 Problems of Change in Community-Based Organizations. 3 cr. U/G. Advanced training in community organizing with reflective paper. Prereq: Ed Pol 111(P) & cons instr.


509 (409) (effective 01/25/2016) Fieldwork/Practicum in Education and the Community. 1-3 cr. U/G. Advanced fieldwork/Practicum for students to acquire skills for educational and community practice; fieldwork hours correspond to credit value - 50 hours for 1 cr, 75 hours for 2 crs, 100 hours for 3 crs. May be retaken to 6 cr max. Prereq: Comm Ed majors only.

510 Human Relations for Community Organizations & Community Engagement. 3 cr. U/G. Analysis of selected concepts and resources bearing on human relations training. Various approaches, e.g., Harvard case studies, to human relations will be evaluated. Prereq: jr st.

519 Peer Programs and Mediation: Youth Mentoring and Supporting Youth. 3 cr. U/G. Theory and practice of
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>520</td>
<td>Peace Education. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>Discusses how education and community education can address the threats of violence and prepares students to teach about peace, nonviolence, and conflict resolution.</td>
<td>Prereq: jr st or cons instr. Minimum of 9 hrs Soc Sci division course work.</td>
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<tr>
<td>521</td>
<td>Nonviolence in Education. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>An overview of different theories of nonviolence and an examination of their applications in educational setting.</td>
<td>Prereq: jr st; Ed Pol 520(R); Psych 201(R) or cons instr.</td>
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<tr>
<td>522</td>
<td>Abusive Relationships: Community Problems, Community Solutions. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>The origins of relationship abuse, the legal aspects of domestic violence, and the healing process for people hurting in relationships.</td>
<td>Prereq: jr st; Ed Pol 520(P) or cons instr.</td>
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<tr>
<td>522 (effective 09/02/2015)</td>
<td>Abusive Relationships: Community Problems, Community Solutions. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>The origins of relationship abuse, the legal aspects of domestic violence, and the healing process for people hurting in relationships.</td>
<td>Prereq: jr st; Ed Pol 520(P) or cons instr.</td>
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<td>533</td>
<td>Educating Black Males-Theories, Methods and Strategies. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>This course will develop skills and strategies to affect changes in the lives of black males in the school system, k through 12 grade.</td>
<td>Prereq: jr st; Ed Pol 112 or 375 or equiv or teacher certification.</td>
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<tr>
<td>534</td>
<td>The Student at Risk (Causes). 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>Helps teachers to identify and understand the personal, social, cultural and community contexts which contribute to the at-risk status of public school students.</td>
<td>Prereq: jr st.</td>
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<tr>
<td>535</td>
<td>Educating At-Risk Students. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>Development of skills and techniques to enable teachers to be instructionally effective with at-risk students.</td>
<td>Prereq: jr st.</td>
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<tr>
<td>550</td>
<td>Comparative Education. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>Survey of foreign school systems with attention to cultural setting and major purposes.</td>
<td>Prereq: jr st.</td>
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<tr>
<td>560</td>
<td>Education and Hispanics. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>Examination of the educational experiences of Hispanics in schools in the USA.</td>
<td>Prereq: jr st.</td>
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<tr>
<td>561</td>
<td>Education Issues in American Indian Communities. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>Unique political-legal, social-cultural contexts of Native Education, intergovernmental involvement and role in addressing social/cultural and developmental needs of tribal societies.</td>
<td>Prereq: jr st or cons instr.</td>
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<tr>
<td>579</td>
<td>Current Topics in Cultural Foundations of Education: (Subtitled). 1-6 cr. U/G.</td>
<td>1-6</td>
<td>U/G</td>
<td>Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.</td>
<td>Retakeable with change in topic to max of 9 cr, including cr earned under Ed Pol 779. Prereq: jr st.</td>
</tr>
</tbody>
</table>
580 An Overview of Child/Youth Care. 3 cr. U/G. Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.\[Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other. Prereq: jr st or cons instr.\]

581 Youth Work Practice. 3 cr. U/G. Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.\[Ed Pol/ExcEduc/Soc Wrk 581 are jointly offered & count as repeats of each other. Prereq: jr st; Ed Pol/ExcEduc/Soc Wrk 580(P); or grad st or cons instr.\]

582 Operations Management in Early Childhood Programs. 3 cr. U/G. An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.\[Jointly offered with & counts as repeat of Ad Ldsp 582. Prereq: jr st; Ad Ldsp 581(P); or cons instr.\]

584 Early Childhood Programs and the External Environment. 3 cr. U/G. Examines external influences that impact daycare. Students explore issues of culture, community, diversity, and policy as well as technical issues related to program quality.\[Prereq: jr st & Ad Ldsp 581(P); or cons instr.\]

585 Supervised Practicum in Child and Youth Care. 2-4 cr. U/G. Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorally, cognitively and/or physically disabled youth.\[Ed Pol/ExcEduc 585 are jointly offered & count as repeats of each other. Prereq: jr st; Ed Pol/ExcEduc/Soc Wrk 580(P), or grad st; cons instr.\]

597 Public Schools, Church-State Issues: Educational Foundations. 3 cr. U/G. Examination of the intersection between church and state in public education, including historical, legal, and moral issues; discussions of religious conflicts.\[Prereq: jr st.\]

601 (401) Foundations of Community-Based Organizations. 3 cr. U/G. Overview of community based organizations, their structures, functions, & administration. Students will also be taught proposal writing skills.\[Prereq: jr st or cons instr.\]

602 (421) Proposal Writing and Fundraising Skills for Community-Based Organizations. 3 cr. U/G. Course prepares students to research, identify and apply for government funded community programs.\[Prereq: jr st.\]

603 (422) Community Policy Analysis. 3 cr. U/G. Overview of policy analysis theory and approaches and techniques used to make sound policy decisions.\[Prereq: jr st or cons instr.\]

604 (423) Marketing for Community-Based Organizations. 3 cr. U/G. Basic theories of marketing and the application of marketing strategies used by community-based organizations.\[Prereq: jr st or cons instr.\]

605 (424) Community-Based Organization Funding. 3 cr. U/G. Overview of basic fiscal issues (funding types and sources, accountability issues, oversight systems, etc) impacting community-based organizations.\[Prereq: jr st or cons instr.\]

606 Quality Controls and Accountability for Community-Based Organizations. 3 cr. U/G. Introduction to quality controls and accountability tools that community-based organizations need in an era of increased accountability.\[Prereq: jr st.\]

607 Service Learning and Community Engagement. 3 cr. U/G. Examines theories and practices of Service Learning and Community Engagement. Provides frameworks for reflection and action. Explores power, inequality and approaches to social justice.\[Part of concentration in Community Engagement and Partnerships. Prereq: jr st or cons instr.\]

608 Social Media and Technology for Community Engagement. 3 cr. U/G. Introduces a variety of current visions of social media and approaches to community informatics.\[Prereq: jr st or cons instr.\]
609 Community Partnerships. 3 cr. U/G. Explores different partnership environments, including: community-campus partnerships, inter-agency non-profit partnerships; governmental-non-profit partnerships; and public-private partnerships through theory and practice.|Prereq: jr st or cons instr.

610 Reproduction of Minority Communities. 3 cr. U/G. Analysis of the social, economic, and cultural forces behind the formation and reproduction of minority and disadvantaged communities in the United States.|Jointly offered w/ & counts as repeat of Sociol 610. Prereq: jr st; any Sociol 100-level course.


612 Community Participation and Power. 3 cr. U/G. Strategies for community participation in policy and practice; importance of understanding power relations for success. Students choose individual focus: e.g., housing, public health, education, etc.|Prereq: jr st.

613 (512) Context and Foundations of Educational Policy. 3 cr. U/G. Defines educational policy, studies philosophical, historical, and social contexts of educational policy, examines context of educational policy, and presents contemporary educational concerns.|Prereq: jr st.

615 Service Delivery Policies & Systems for Community-Based Organizations. 3 cr. U/G. Overview of key policies used by community-based organizations in developing service delivery systems.|Prereq: jr st.


621 History of Native Education and Policy Development. 3 cr. U/G. Historic policy development affecting the education of American Indians including the development of schools and the relationship of education to federal Indian policy.|Prereq: jr st or cons instr.

624 Gender and Education. 3 cr. U/G. Overview of the major discussions and debates in the area of gender, focusing on the intersections of gender, race, class, ethnicity, and sexuality.|Prereq: jr st.

625 Race Relations in Education. 3 cr. U/G. Study and analysis of historical and theoretical bases of racism/race relations in America and their influences on contemporary educational policies and practices.|Prereq: jr st.


630 Race and Public Policy in Urban America. 3 cr. U/G. Examination of the relationship between race and public policy with emphasis on issues (housing, crime, welfare reform, poverty, employment, discrimination, etc.) impacting urban communities.|Prereq: jr st or cons instr.

633 Community Development for Low-Income and Minority Communities. 3 cr. U/G. Introduction to the principles, ideas, and techniques of community development and the development of minority communities.|Prereq: jr st.

636 Issues in African American Education. 3 cr. U/G. Contemporary issues in African American education, including special education, poverty, and academics, and their historical contexts.|Prereq: jr st.

639 Milwaukee Black Community. 3 cr. U/G. Overview of the social, historical, economic and political developments of Milwaukee's Black community.|Prereq: jr st.
640 The Rise and Fall of America's Southern Civil Rights Movement. 3 cr. U/G. African Americans' struggle for Civil Rights in the South, focusing on issues such as education, housing, and politics; social and historical context for related policies.|Prereq: jr st.

650 The Civil Rights Movement in Northern Cities. 3 cr. U/G. Exploration of the Civil Rights Movement in northern cities, focusing on issues such as education, housing, and politics; social and historical context for related policies.|Prereq: jr st.

660 History of Western Education. 3 cr. U/G. Chronological narrative examining educational systems in western countries through the development of various civilizations from ancient Egypt to Europe.|Prereq: jr st.

688 Fieldwork in Multicultural Education. 1-6 cr. U/G. Fieldwork in multicultural settings appropriate for cultural research, analysis and study. Individualized requirements and evaluation criteria to be determined by faculty on individualized bases.|May be retaken to 6 cr max. Prereq: jr st; cons instr.

698 Fieldwork in International Education. 1-6 cr. U/G. Fieldwork in intercultural settings appropriate for cultural research, analysis and study. Requirements and evaluation criteria to be determined by faculty on individualized basis.|Retakable to 6 cr max. Prereq: jr st; cons instr.

This course information produced at 01:00 on 07/30/2015.
School of Education

ED PSY Educational Psychology

100 Learning Skills Laboratory. 2 cr. U. |Prereq: none. Not open to jr & sr st except as auditors.

101 Foundations of Academic Success: (Subtitled). 1-2 cr. U. A variable content course designed to increase retention through self-assessment, career exploration, decision-making, study skills, goal setting, and available resources at UWM.|Cr/no cr only. May be retaken with change of topic to max of 3 cr. Prereq: none.

104 Pathways to Success at UWM: (Subtitled). 2 cr. U. Provides students with knowledge of and connection to campus resources, helping with study skills and time management in order to be successful at UWM.| May not be retaken for credit. Counts as repeat of Ed Psy 101 with same topic. Prereq: none.

110 (effective 09/02/2015) Planning Your Major, Career. 3 cr. U. Understanding the career planning process for making decisions about academic majors and careers.|Counts as repeat of Ed Psy 101 with same topic. Prereq: none.

110 Planning Your Major, Career. 2 cr. U. Understanding the career planning process for making decisions about academic majors and careers.|Counts as repeat of Ed Psy 101 with same topic. Credit/No Credit only. Prereq: none

220 (effective 09/02/2015) Positive Psychology Applied to Culture, Learning, & Development. 3 cr. U. Introduction to topics related to happiness and positive aspects of the learning experience, positive psychological constructs that optimize learning.|Prereq: OWC Part A

279 Current Topics in Educational Psychology: (Subtitled). 1-3 cr. U. Specific topic announced in Schedule of Classes each time course is offered; any additional prerequisites are included in announcement.|May be retaken with change of topic to max of 9 cr. Prereq: none.

290 Individual Research. 1-3 cr. U. |Prereq: cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

299 Independent Reading. 1-3 cr. U. For benefit of undergraduate students unable to secure needed content in regular courses.|Prereq: cons instr.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>301</td>
<td>Successful Career Transitions: Ideas, Strategies, Accomplishments</td>
<td>2 cr.</td>
<td>U</td>
</tr>
<tr>
<td>320</td>
<td>Principles of Classroom Appraisal and Evaluation</td>
<td>2-3 cr.</td>
<td>U</td>
</tr>
<tr>
<td>325</td>
<td>Practice of Classroom Assessment</td>
<td>2 or 3 cr.</td>
<td>U</td>
</tr>
<tr>
<td>330</td>
<td>Introduction to Learning and Development</td>
<td>3 cr.</td>
<td>U</td>
</tr>
<tr>
<td>497</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>505</td>
<td>Positive Psychology: Theory and Application in Learning Contexts</td>
<td>1 or 3 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>541</td>
<td>Assessment in Science and Math I</td>
<td>1 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>542</td>
<td>Assessment in Science and Math II</td>
<td>1 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>543</td>
<td>Assessment in Science and Math III</td>
<td>1 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>550</td>
<td>Social and Affective Issues in Urban Classrooms</td>
<td>3 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>551</td>
<td>Social and Affective Issues: Case-Based Problem-Solving</td>
<td>1 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>575</td>
<td>Infant and Early Childhood Assessment</td>
<td>3 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>579</td>
<td>Current Topics in Educational Psychology: (Subtitled)</td>
<td>1-3 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>624</td>
<td>Educational Statistical Methods I</td>
<td>3 cr.</td>
<td>U/G</td>
</tr>
<tr>
<td>626</td>
<td>Workshop in the Computerized Analysis of Educational Data</td>
<td>1 cr.</td>
<td>U/G</td>
</tr>
</tbody>
</table>

**637 The Psychology of Informal Learning Contexts. 3 cr. U/G.** Overview of theory and research about how people learn in informal contexts, i.e. after-school settings, online immersive environments, science centers, museums and cultural institutions. Prereq: jr st.

101 Fundamentals of Electrical Engineering. 3 cr. U. Principles of electrical engineering including intro to fundamental electrical quantities and circuit analysis. Lab with reinforcing experiments, introduction to electrical test equipment, computer simulation techniques, and team project. Counts as repeat of ElecEng 299 with same topic. Prereq: Math 116 (C).

150 Electronic Technology in the World Around Us. 3 cr. U. An introductory course that explains the modern technology affecting our everyday life. Topics include: digital communication, satellites, television, stereo system, computer, radar, microwaves, lasers. Prereq: none.


299 Topics in Electrical Engineering: (Subtitled). 1-3 cr. U. Work on new material in electrical engineering. Section title and credits announced whenever course is offered. May be retaken to max of 6 cr with change in topic. Prereq: specific courses dependent on topic.

301 Electrical Circuits I. 3 cr. U. Circuit laws and analysis, resistive circuits, energy storage, AC circuits and power, three-phase circuits, computer-aided analysis. Prereq: Physics 210(C).

305 Electrical Circuits II. 4 cr. U. Transformers, transient response, network functions, s-domain, response, filters, fourier analysis, two-ports. 3 hr Lec/2 hr Lab. Prereq: ElecEng 301(P) & 234 (P).

306 Introduction to Electrical Engineering. 4 cr. U. An introduction to electrical circuits with laboratory. Topics include dc and ac circuits, signal transients, motors, transformers and operational amplifiers. Prereq: Physics 210(P); ElecEng 234(P).

310 Signals and Systems. 3 cr. U. Analysis techniques for signals and systems in both continuous and discrete time. Signal representation, including fourier and laplace transforms; system definitions and properties. Prereq: ElecEng 305(C).

330 Electronics I. 4 cr. U. Op-amps, diodes, bipolar junction transistors, mos field effect circuit applications. Counts as
354 (effective 09/02/2015) Digital Logic. 3 cr. U. Number systems and binary codes; Boolean Algebra and basic results; switching functions; minimization techniques; analysis and design of combinational and sequential logic circuits. Prereq: CompSci 240(P) or 250(201)(P).

361 Electromagnetic Fields. 3 cr. U. Principles of electrostatics and electromagnetics; laws of fields; resistance, inductance, and capacitance; dielectrics; energy storage; Maxwell's field equation. Prereq: Physics 210(P), ElecEng 234(P), grade C or better in Math 233(P).

367 (effective 09/02/2015) Introduction to Microprocessors. 4 cr. U. Fundamentals of microprocessors, including assembly language programming, hardware design, interfacing peripherals and programmable I/O devices, and social/ethical issues in engineering design and practice. Lab. Prereq: CompSci 240(P) or 250(201)(P); & C or better in ElecEng 354(P).
radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.|Prereq: sr st; ElecEng 310(P) or equiv.


451 Introduction to VLSI Design. 3 cr. U/G. Introduction to design of VLSI circuits. Ic fundamentals including: energy band diagrams, transistor optimization, design approaches including both customs and semi-custom.|Prereq: jr st; ElecEng 330(P), 354(P).

457 Digital Logic Laboratory. 3 cr. U/G. Experimentation with digital logic systems. Synthesis of digital systems, such as adders, shift registers. Analog/digital and digital/analog converters from basic logic modules.|Prereq: jr st; ElecEng 330(P), 354(P).

458 Computer Architecture. 3 cr. U/G. Processor organization and design; memory organization; microprogramming and control unit design; I-O organization; case studies of selected machine architectures.|Jointly offered with & counts as repeat of CompSci 458. Prereq: jr st; ElecEng 354(P), CompSci 315(215)(P) or ElecEng 367(P).

461 Microwave Engineering. 3 cr. U/G. Review from electromagnetics, transmission lines and waveguides; impedance matching, passive components, stripline and microstrip line circuits, dielectric waveguide, laboratory experiments, industrial and biomedical applications.|Prereq: jr st; ElecEng 361(P) or equiv.

462 Antenna Theory. 3 cr. U/G. Analysis and design of antennas: antenna fundamentals; wire antennas; dipole, monopole, and loop antennas; antenna arrays; aperture antennas; horn, slot, and parabolic dish antennas.|Prereq: jr st; ElecEng 361(P).

464 Fundamentals of Photonics. 3 cr. U/G. Fundamentals of ray, electromagnetic, and beam optics; polarization and polarization-based devices; optics of layered media; and guided-wave optics, including optical fibers.|Prereq: jr st & ElecEng 361(P); or grad st.

465 Broadband Optical Networks. 3 cr. U/G. Multichannel lightwave systems based on wavelength-division, time-division, and subcarrier multiplexing; optical devices and coding techniques for implementing optical networks.|Counts as repeat of ElecEng 490(690) w/same topic. Prereq: jr st; ElecEng 305(P) & 361(P); or grad st.

471 Electric Power Systems. 3 cr. U/G. Elements of a typical power system. Per-unit quantities; load flow study; economic dispatch; symmetrical components; fault study; system protection; stability.|Prereq: jr st; ElecEng 362(C).

472 Introduction to Wind Energy. 3 cr. U/G. Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.|MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another. Prereq: jr st; or cons instr.

474 (402) Introduction to Control Systems. 4 cr. U/G. Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.|Not open for cr to students w/cr in ElecEng 402. Prereq: jr st; ElecEng 310(P), CivEng 202(P) or cons instr; or grad st.

474 (effective 01/25/2016) Introduction to Control Systems. 4 cr. U/G. Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.|Prereq: jr st; ElecEng 310(P), CompSci 240 (P), Civ Eng 202(P) or cons instr; or grad st.

482 Introduction to Nanoelectronics. 3 cr. U/G. Wave properties of electrons, diffraction, Schrödinger's equation, quantum confinement, band theory, tunnel junctions, Coulomb blockade, quantum dots and wires, quantum conductance and ballistic transport.|Prereq: jr st; ElecEng 330(C), ElecEng 361(C).
490 (690) Topics in Electrical Engineering: (Subtitled). 1-3 cr. U/G. Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered. May be retaken with change in topic to max of 9 cr. Prereq: jr st.


545 FPGA Embedded CPUs & Firmware Development. 3 cr. U/G. Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices. Jointly offered with & counts as repeat of ElecEng 545. Prereq: jr st; ElecEng 367(P) & 457(P).

562 Telecommunication Circuits. 3 cr. U/G. Radio frequency communication systems, terrestrial and satellite communication systems, mixers, oscillators, filters, design considerations for receivers and transmitters. Prereq: sr st; ElecEng 330(P).

565 Optical Communication. 3 cr. U/G. Overview of communication systems, light and electromagnetic waves, optical fibers, lasers, led, photodetectors, receivers, optical fiber communication systems. Prereq: sr st; ElecEng 361(P), & 330(P) or 465(P).

568 Applications of Digital Signal Processing. 3 cr. U/G. Introduction to the use of modern digital signal processor (DSP) units in DSP applications such as digital filtering and speech signal processing. Counts as repeat of ElecEng 490 and 890 w/similar topic; Prereq: ElecEng 310(P), 367(P).

572 Power Electronics. 3 cr. U/G. Power diodes and transistors; static converters; D.C. power supplies; power transistor circuits; SCR's; classical and modern forced-commutation inverters; choppers; cycloconverters, applications in power. Prereq: sr st; ElecEng 335(C).

574 (503) Intermediate Control Systems. 3 cr. U/G. State space; frequency domain methods of modelling, analysis and design of control systems; digital control; and multivariate systems. ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 478(ER). Prereq: sr st; MechEng 474(P) or ElecEng 474(402(P); or grad st.


588 Fundamentals of Nanotechnology. 3 cr. U/G. Nanofabrication, self-assembly, principles of scanning tunneling/atomic force microscopy, operators, energy quantization; density of states, quantum dots, nanowires, carbon nanotubes: electronic properties and applications. Prereq: jr st; non-ElecEng majors; ElecEng 361(P) or equiv.

595 Capstone Design Project. 4 cr. U. Team project in simulated industrial environment. Each team develops solutions to complex real world design problems and reports results in professional writing and oral presentation. Counts as repeat of ElecEng 355. Prereq: sr st; ElecEng 335(P), ElecEng 367(P).

599 (390) Senior Thesis. 1-3 cr. U. Independent research under the direction of a faculty member; submission of a written thesis is required. 3 cr total required. May be retaken to max of 3 cr. Prereq: sr st & cons instr.

699 Independent Study. 1-3 cr. U/G. May be retaken to max of 6 cr toward the undergraduate degree. Prereq: jr st; cons instr.

This course information produced at 01:00 on 07/30/2015.
1 Engineering Co-op Work Period. 1 cr. U. One semester work period in an industrial environment. Cr/No cr only. Retakeable but only 3 cr count toward graduation. Prereq: prior cons co-op dir.

100 CEAS Freshman Orientation. 1 cr. U. An introduction to problem solving in engineering and computer science. Credit/No Credit grading option only. Prereq: none.


297 Study Abroad: (Subtitled). 1-5 cr. U/G. Designed to enroll students in UWM sponsored program. Course work, level, content, and credits determined at the time of offering. Retakable with change in topic to 12 cr max. Prereq: acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.

299 Independent Study. 1-3 cr. U. Independent study on a topic of choice. Credit hours to be arranged between student and staff on an individual basis. Retakeable for degree cr. Prereq: cons instr.

350 Senior Leadership Seminar. 1 cr. U. Elements of historical and modern social and professional leadership, preparing for a leadership position in industry, leadership and entrepreneurship, engineering management techniques. Prereq: sr st.

497 Study Abroad: (Subtitled). 1-5 cr. U/G. Designed to enroll students in UWM sponsored program. Course work, level, content, and credits determined at the time of offering. Retakeable with change in topic to 12 cr max for undergrad & 9 cr max for grad. Prereq: acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.
ENGLISH English

206 Technical Writing. 3 cr. U. Instruction and practice in writing technical reports, proposals, and other technical writing forms. Particularly appropriate for students in science, engineering, architecture, and other applied sciences. May not be taken cr/no cr. Counts as repeat of English 206. Prereq: satisfaction of GER English Composition competency req.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.


428 Strategic Writing for Organizations. 3 cr. U. Analysis and creation of written responses to a wide variety of organization issues, exigencies, and crises. Counts as repeat of English 428. Prereq: jr st; satisfaction of GER English Composition competency req


435 Professional and Technical Writing. 3 cr. U. The writing process in business, industry, and government, with intensive practice and analysis of professional writing and publishing techniques and products. Counts as repeat of English 435. Prereq: jr st; English 205(P), 206(P), or 207(P), or cons instr.

435 (effective 09/02/2015) Professional and Technical Communications. 3 cr. U. The process of communications development in business, industry, and government, with intensive practice and analysis of professional writing and publishing techniques and products. Counts as repeat of English 435. Prereq: jr st; English 205(P), 206(P), or 207(P), or cons instr.

437 Project Management for Professional Writers. 3 cr. U. Major stages of the writing process in workplace contexts: research, analysis, project planning and management, document design, usability testing, and revision. Counts as repeat of English 437. Prereq: jr st; satisfaction of GER English Composition competency req; English 205(P),
### 439 (effective 09/02/2015) Information Design. 3 cr. U. Development of technical communication projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication. | Prereq: jr st; English 205(P), 206(P), or 207(P), or cons instr.

### 439 Document Design. 3 cr. U. Development of technical writing projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication. | Counts as repeat of English 439. Prereq: jr st; English 205(P), 206(P), or 207(P), or cons instr.

### 499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | Retakable w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req, add'l prereqs may be assigned to specific topic.

#### A. Individual Study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>199 Independent Study</td>
<td>1-3 cr. U.</td>
<td>For further information, consult dept chair.</td>
<td>Retakable w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair &amp; asst dean for SAS.</td>
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<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>289 Internship in English, Lower Division</td>
<td>1-6 cr. U.</td>
<td>Application of basic principles of English in a business, organizational, educational, political, or other appropriate setting.</td>
<td>One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: satisfaction of GER English Composition competency req; 2.25 gpa; C or better in English 201(P), 202(P), 205(P), 208(P), 233(P), 234(P), 236(P), 230(P), or 240(P), cons supervising faculty member.</td>
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</thead>
<tbody>
<tr>
<td>296 UROP Apprenticeship</td>
<td>1-3 cr. U.</td>
<td>Undergraduate research participation in a project developed with a supervising member of the faculty or staff.</td>
<td>One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs &amp; srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.</td>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>297 Study Abroad: (Subtitled)</td>
<td>1-12 cr. U.</td>
<td>Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.</td>
<td>Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.</td>
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</tr>
</thead>
<tbody>
<tr>
<td>298 Undergraduate Lower-Division Service Learning</td>
<td>1 cr. U.</td>
<td>Faculty-supervised placement of students as community service volunteers.</td>
<td>Retakable to 3 cr max. Prereq: conc reg in English 100- or 200-level service learning course.</td>
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</tbody>
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<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>398 Undergraduate Upper-Division Service Learning</td>
<td>1 cr. U.</td>
<td>Faculty-supervised placement of students as community service volunteers.</td>
<td>Retakable to 3 cr max. Prereq: conc reg in English 300-level or above service learning course.</td>
</tr>
</tbody>
</table>

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</tr>
</thead>
<tbody>
<tr>
<td>497 Study Abroad: (Subtitled)</td>
<td>1-12 cr. U.</td>
<td>Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.</td>
<td>Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.</td>
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</tbody>
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<th>Credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>699 Independent Reading</td>
<td>1-3 cr. U.</td>
<td>Advanced independent work under the supervision of an English faculty or instructional academic staff member. Student must submit a study proposal.</td>
<td>For further information, consult assistant chair/undergraduate program coord.</td>
</tr>
</tbody>
</table>

#### B. Basic Courses in Composition
90 Basic Writing. 0 cr. U. Sustained writing and revision to develop fluency in articulating ideas and familiarity with writing conventions. Fourth instructional hr required.|May not be taken cr/no cr. Audit not allowed. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Prereq: level 0 on English Placement Test.

95 Fundamentals of Composition. 0 cr. U. Critical reading and writing, with an emphasis on the processes of writing and revision. Students produce a portfolio of revised essays.|May not be taken cr/no cr. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Prereq: level 0 on English Placement Test.

100 (effective 09/02/2015) Introduction to College Writing and Reading. 4 cr. U. Critical reading and writing, with emphasis on the processes of writing, revision, and academic conventions. Students produce a portfolio of revised essays.|Weekly Writing Center session req’d. May not be taken cr/no cr. Not open to students who have taken English 101. Prereq: level 1 on English Placement Test.

101 Introduction to College Writing. 3 cr. U. Critical reading, writing, and revision, with an emphasis on reflective inquiry and academic writing conventions. Students produce a portfolio of revised essays.|May not be taken cr/no cr. Prereq: Level 1 or 2 on English Placement Test or grade of C or better in English 095.

101 (effective 09/02/2015) Introduction to College Writing. 3 cr. U. Critical reading, writing, and revision, with an emphasis on reflective inquiry and academic writing conventions. Students produce a portfolio of revised essays.|May not be taken cr/no cr. Not open to students who have taken English 100. ESL 118 counts as a repeat of English 101. Prereq: Level 2 on English Placement Test or grade of C or better in English 095.

102 (effective 09/02/2015) College Writing and Research. 3 cr. U. Extensive engagement with academic research writing and reflective analysis. Students will produce a portfolio of revised writing.|May not be taken cr/no cr. Counts as repeat of English 112, Honors 102, 112. Prereq: level 3 on English Placement Test or grade of C or better in English 100(P) or 101(P) or ESL 118(P).

102 College Writing and Research. 3 cr. U. Extensive engagement with academic research writing and reflective analysis. Students will produce a portfolio of revised writing.|May not be taken cr/no cr. Counts as repeat of English 112, Honors 102, 112. Prereq: level 3 on English Placement Test or grade of C or better in English 101(P) or ESL 118(P).

105 College Writing Workshop. 1 cr. U. Workshop on strategies for revising and editing college writing.|Credit/no credit only. Prereq: grade of C or better in English 095(P) or Level 1 on English Placement Test; conc reg in English 101(C).

201 Strategies for Academic Writing. 3 cr. U. Intensive practice in expository writing designed to continue development of already proficient writers.|Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

202 Writing in the Humanities. 3 cr. U. Development of styles and modes of literary and academic discourse in response to essays and literary works touching on a common theme.|Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

205 Business Writing. 3 cr. U. Instruction and practice in writing business reports, memos, and letters. Particularly appropriate for students in business and related areas.|May not be taken cr/no cr. Prereq: soph st; grade of C or better in English 102(P) or score at level 4 on EPT.

206 Technical Writing. 3 cr. U. Instruction and practice in writing technical reports, proposals, and other technical writing forms. Particularly appropriate for students in science, engineering, architecture, and other applied sciences.|May not be taken cr/no cr. Counts as repeat of English 206X. Prereq: satisfaction of GER
English Composition competency req.

207 Health Science Writing. 3 cr. U. Instruction and practice in writing reports and research papers for health science professions. Particularly appropriate for students in health related fields, including pre-medical, dental, etc.|May not be taken cr/no cr. Prereq: satisfaction of GER English Composition competency req.

214 Writing in the Professions: (Subtitled). 3 cr. U. Adaptation of writing to situations and requirements of specific professional writing genres, such as criminal justice, government, and environmental writing.|Retakable w/chg in topic; no cr limit. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

218 Veterans Re-Entry Writing Workshop. 2 cr. U. Instruction in a combination of stress reduction and journaling techniques designed to ease readjustment to civilian life, tap into creative capacities, and boost writing skills.|Prereq: prior military service or cons instr.

230 Writing with Style. 3 cr. U. Students develop and enhance their expository writing style by reading short essay selections and writing in a variety of rhetorical forms, styles, and modes.|Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

233 (203) Introduction to Creative Writing. 3 cr. U. An introduction to the writing of poetry and fiction.|Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

234 Writing Fiction: Structure and Technique. 3 cr. U. Readings and discussion demonstrating the basic structural and technical elements of modern fiction, with opportunities for practice.|Prereq: English 233(203)(P).


236 (204) Introductory Topics in Creative Writing: (Subtitled). 3 cr. U. Instruction and practice in genres other than fiction and poetry.|Retakable w/chg in topic to 6 cr max. Prereq: English 233(203)(P) or 234(P).

240 Rhetoric, Writing, and Culture: (Subtitled). 3 cr. U. Major concerns in cultural criticism, including race, gender, class, cultural identity, technology, and ideology; examines how rhetoric, writing, and media influence our thinking about these concerns.|Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

C. Introductory Language and Literature

150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities through materials from literature, history, and the media, with attention to African-, Asian-, Hispanic-, and Native American experiences.|Cultures and Communities Prog course; req'd service learning component. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First Year Sem (course numbers 192, 193, 194). Prereq: none.

209 Language in the United States. 3 cr. U. Survey of the languages of the U.S., discussing social and political aspects of language use and issues of interethnic communication.|Prereq: none.

210 International English. 3 cr. U. Varieties of English spoken around the world; history and spread of English; use of English as a national and international language.|Prereq: none.

211 Aspects of the English Language: (Subtitled). 3 cr. U. Introductory projects in such areas as social or specialized usages, modern grammars, dialects, English language history, theoretical and practical studies of
language in literary forms. Not retakable for cr. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

212 Grammar and Usage. 3 cr. U. The basic concepts and categories of English grammar, with emphasis on usage and writing problems. Prereq: none.

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. Jointly offered with, & may be used to repeat, Classic 213, French 213, German 213, Italian 213, Linguistics 213, Polish 213, Russian 213, & Spanish 213. Prereq: none.

215 Introduction to English Studies. 3 cr. U. Writing-intensive introduction to multiple forms and contexts of literary and nonliterary texts and discourses in English, in a cultural, historical, and global framework. Required for English & secondary education English majors. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

221 English Writers to 1800. 3 cr. U. Works of English literature from Anglo-Saxon period through the eighteenth century. Combines close reading with study of historical and cultural context of literature. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

222 English Writers, 1800 to the Present. 3 cr. U. Works of English literary tradition from the Romantics through the present. Combines close reading with study of the historical and social context of literature. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

223 American Writers to 1900. 3 cr. U. Works of American literature from colonial times through Whitman and Twain. Combines close reading with study of the historical and cultural context of literature. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

224 American Writers: 1900 to the Present. 3 cr. U. Works of American literature from late nineteenth century to the present. Combines close reading with study of the historical and cultural context of literature. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

229 Introduction to Modern Literature: (Subtitled). 3 cr. U. Works in the modern tradition from the 1910's to the present. Retakable w/chg in topic to 9 cr max. With 'Backgrounds' subtitle, counts as a repeat of English 225; with 'Modern Developments' subtitle counts as a repeat of English 226. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

243 Introduction to Literature by Women: (Subtitled). 3 cr. U. Ways in which women have expressed their views of women's roles and goals in literature. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

245 The Life, Times, and Work of a Literary Artist: (Subtitled). 3 cr. U. A writer in a cultural, historical, and biographical context. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

247 Literature and Human Experience: (Subtitled). 3 cr. U. Focus upon the portrayal of a universal theme in literature of the past and present. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

248 Literature and Contemporary Life: (Subtitled). 3 cr. U. Literary portrayal of the character issues and concerns of the contemporary world as reflected in literature. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

251 Fantasy in Literature: (Subtitled). 3 cr. U. Forms of fantasy in literature from the medieval period to the present. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.
252 Mystery and Detective Fiction: (Subtitled). 3 cr. U. Selected works of detective fiction by theme, type, period, or origin. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

253 Science Fiction: (Subtitled). 3 cr. U. Selected works of literary science fiction by theme, type, period, or origin. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

260 Introduction to Poetry: (Subtitled). 3 cr. U. Selected works of poetry by theme or type. Retakable w/chg of topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 of EPT.

261 Introduction to Short Stories: (Subtitled). 3 cr. U. Selected short stories by theme, type, period, or origin. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

262 Introduction to Drama: (Subtitled). 3 cr. U. Selected plays of the English-speaking theater by theme, type, period, or origin. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

263 Introduction to the Novel: (Subtitled). 3 cr. U. Selected novels from the English-speaking world by theme, type, period, or origin. Retakable w/chg of topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

268 Introduction to Cultural Studies: (Subtitled). 3 cr. U. Theories, subject matters, and core texts of the interdisciplinary field of cultural studies. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

269 Literary Forms and Genres: (Subtitled). 3 cr. U. A literary form or genre such as essay, satire, tragedy, etc. Retakable w/chg of topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 of EPT.

274 Literature and the Other Arts: (Subtitled). 3 cr. U. Selections from literary studies in connection with works from the other arts ranging from the Middle Ages to the present. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

275 The Forms of Folk Literature: (Subtitled). 3 cr. U. Folk literature as a literary type with emphasis on varying ethnic groups. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

276 Introduction to American Indian Literature: (Subtitled). 3 cr. U. Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe or time period. AIS 276 & English 276 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

277 Introduction to Ethnic Minority Literature: (Subtitled). 3 cr. U. A survey covering literature by three or more of the following ethnic groups: African American, American Indian, Asian American, U.S. Latino/a, and Caribbean American. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

278 Introduction to World Literatures Written in English: (Subtitled). 3 cr. U. The literature of a particular region or regions of the English-speaking world. Retakable w/chg of topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 of EPT.
### 279 Introduction to U.S. Latino/a Literature: (Subtitled). 3 cr. U.
Latino/a American literature with a focus on region, genre, theme, or period. Retakable w/chg in topic to 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

### 280 Introduction to Asian-American Literature: (Subtitled). 3 cr. U.
Asian-American literature with focus on region, genre, theme, or period. Retakable w/chg of topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 of EPT.

### 281 Introduction to African-American Literature: (Subtitled). 3 cr. U.
African-American literature with a focus on region, genre, theme, or period. Retakable w/chg in topic to 9 cr max. Prereq grad of C or better in English 102(P) or score at level 4 of EPT.

### 285 Modern Irish Language and Literature in Translation. 3 cr. U.
Major works of literature written in Irish Gaelic, eighth century to present day, in bilingual (Irish/English) texts. Celtic 285 & English 285 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

### D. Introductory Film/Media/Digital Studies

#### 111 Entertainment Arts: Film, Television, and the Internet. 3 cr. U.
History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form. ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another. Prereq: none.

#### 286 Writing about Film and Television. 3 cr. U.
Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives. English 286 & FilmStd 286 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

#### 290 Introduction to Film Studies. 3 cr. U.
Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking. English 290 & FilmStd 290 are jointly offered; they count as repeats of one another. Prereq: none.

#### 291 Introduction to Television Studies. 3 cr. U.
The forms, images, and narratives particular to television. English 291 & FilmStd 291 are jointly offered; they count as repeats of one another. Prereq: none.

#### 292 Classic Dramas in Film: (Subtitled). 1 cr. U.
A sampling of great plays in film versions, with performances by acclaimed actors. Offered on a cr/no cr basis. Retakable w/chg in topic to 3 cr max. English 292 & FilmStd 292 are jointly offered; w/same topic, they count as repeats of one another. Prereq: none.

#### 293 (273) Literature and Media: (Subtitled). 3 cr. U.
A study of novels, essays, magazines, newspapers, advertisements, and films in order to disclose similarities and differences in their use of rhetorical strategies. Retakable w/chg in topic to 9 cr max. English 293 & FilmStd 293 are jointly offered; w/same topic, they count as repeats of one another. Prereq: soph st.

#### 295 Women and Film. 3 cr. U.
A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture. English 295 & FilmStd 295 are jointly offered; they count as repeats of one another. Prereq: soph st.

### E. Historical Concentration
301 Survey of English Literature, Beginnings to 1500. 3 cr. U. Writers and literary trends of the Old English and medieval period, with emphasis on their historical, social, and cultural context.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

302 Survey of English Literature, 1500-1660. 3 cr. U. Writers and trends of the English literature in the period 1500-1660, with emphasis on historical, social, and cultural context.|Recom in prep for English 452, 453, 454 & 456. Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

303 Survey of English Literature, 1660-1798. 3 cr. U. Writers and trends in English Literature, 1660-1798, with emphasis on historical, social, and cultural context.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

304 Survey of English Literature, 1798-1900. 3 cr. U. Writers and trends in English Literature, 1798-1900, with emphasis on historical, social, and cultural context.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

305 Survey of English Literature: 1900 to the Present. 3 cr. U. Writers and trends of English Literature since 1900, with emphasis on historical, social, and cultural context.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

306 Survey of Irish Literature. 3 cr. U. Irish literature from earliest times through the Literary Renaissance--folklore, saga, bardic poetry; poetry, fiction, and drama of the nineteenth century to the present.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

307 Survey of American Literature to 1865. 3 cr. U. Writers and trends in American Literature before 1865, with emphasis on historical, social, and cultural context.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

308 Survey of American Literature, 1865-1965. 3 cr. U. Writers and trends of American Literature, 1865-1965, with emphasis on historical, social, and cultural context.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

309 Survey of Contemporary American Literature. 3 cr. U. Writers and trends of American Literature after 1965, with emphasis on historical, social, and cultural context.|Prereq: soph st; English 215(P); satisfaction of GER English Composition competency req.

F. Genre Concentration—Prose Fiction

325 The Art of Fiction: (Subtitled). 3 cr. U/G. Study of novels or short stories through a unifying theme, set of technical problems, or critical concepts.|Retakable w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

326 The Development of the Novel: (Subtitled). 3 cr. U/G. Major artistic, social and intellectual events in the history of the novel from its origins to the present.|Retakable w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

327 The Development of the Short Story. 3 cr. U/G. Major artistic, social and intellectual events in the history of the short story from the nineteenth century to the present.|Prereq: jr st; satisfaction of GER English Composition competency req.

328 Forms of Experimental Literature: (Subtitled). 3 cr. U/G. Approaches to forms of literature that stress experimentation, innovation and the radical alteration of existing forms.|Retakable w/chg in topic to 9 cr max.
Prereq: jr st; satisfaction of GER Composition competency req.

G. Genre Concentration-Drama

341 The Development of Drama: (Subtitled). 3 cr. U/G. A historical approach, with emphasis on new ideas in the theatre, new techniques, and the evolution of genres.|Retakable w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

342 Comedy: (Subtitled). 3 cr. U/G. Works from the comic tradition with focus on theme, genre, region, or historical development.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

343 Tragedy: (Subtitled). 3 cr. U/G. Works from the tragic tradition with focus on theme, genre, region, or historical development.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

344 Modern Drama: (Subtitled). 3 cr. U/G. Topics vary. American and English dramatists since 1920, with emphasis on their stage approach, their use of language; and themes of illusion, communication, and identity.|Retakable w/chg in topic to 6 cr max. Prereq: jr st, satisfaction of GER English Competency req; 6 cr in courses approved for hum distr cr.

H. Genre Concentration-Poetry

294 Game Culture. 3 cr. U. Critical study of games, digital and otherwise; forms, conventions, and practices that inform design and reception of games; place of games in contemporary culture.|Counts as repeat of English 380 w/same topic. Prereq: English 102(P).

360 The Art of Poetry: (Subtitled). 3 cr. U/G. Inquiry into the art of poetry, with readings from a variety of poets.|Retakable w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.


363 Medieval Epic and Romance. 3 cr. U/G. Study of the traditions of medieval English epic and romance through an examination of representative medieval works.|Prereq: jr st; satisfaction of GER English Composition competency req.

I. Genre Concentration-Other Genres


366 Non-Fiction Prose: (Subtitled). 3 cr. U. A form of non-fiction such as the essay, biography, etc.|Retakable w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req

370 Folk Literature: (Subtitled). 3 cr. U/G. A study of a particular form or forms of folk literature or the folk literature of a designated region or ethnic group.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

373 Survey of Ethnic Minority Literature. 3 cr. U. A general, representative study of the literature of two or more ethnic minority groups. Prereq: jr st; satisfaction of GER English Composition competency req.

374 Survey of U.S. Latino/a Literature. 3 cr. U. A general, representative study of U.S. Latino/a literature. English 374 & Latino 374 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.


378 Survey of Current Literary and Cultural Theory. 3 cr. U. A general, representative study of current critical approaches to literary and cultural studies, including basic terminology and concrete application. Prereq: jr st; satisfaction of GER English Composition competency req.

381 World Literatures Written in English: (Subtitled). 3 cr. U. A general, representative study of the literature of an area of the English-speaking world, e.g. Canada, Australia, etc. Retakable w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

J. English Language Concentration

400 Introduction to English Linguistics. 3 cr. U/G. Application of linguistic theory and techniques to modern English. English/Linguis 400 required of all English majors and minors in School of Education. Jointly-offered with & counts as repeat of Linguis 400. Prereq: jr st; satisfaction of GER English Composition competency req.

401 History of the English Language. 3 cr. U/G. The origins of the English language and its changing structure. Prereq: jr st; satisfaction of GER English Composition Competency req.

402 Theories of Language and Literature: (Subtitled). 3 cr. U/G. Various topics involving some theoretical aspect(s) of language and literature. Retakable w/chg in topic to 6 cr max. Prereq: jr st, satisfaction of GER English Composition competency req; an intro course in linguis (e.g. English/Linguis 400, English 401, or Linguis 350).


404 Language, Power, and Identity. 3 cr. U/G. The use of distinctive language varieties to construct identity and maintain power relations within a society. Prereq: jr st; satisfaction of GER English Composition competency req.

406 Advanced English Grammar. 3 cr. U/G. Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax. English 406 & Linguis 406 are jointly offered; they count as repeats of
K. Creative Writing Concentration—Craft Courses

414 Special Topics in Creative Writing: (Subtitled). 3 cr. U/G. Readings, discussion and assigned writing in specialized areas of creative writing. Retakable w/chg in topic to 9 cr max. Not retakable for major cr. Students may not enroll concurrently in a second section of English 414 or in English 415, 416, 615, or 616. Prereq: jr st; satisfaction of GER English Composition competency req; English 233(P), 234(P), 235(P), or 236(P); or grad st.

415 Fiction Workshop. 3 cr. U. Classroom analysis and discussion of student writing. Content varies. Retakable to 6 cr max. Students may not enroll concurrently in a second section of English 415 or in English 414, 416, 615, or 616. Prereq: jr st; satisfaction of GER English Composition competency req; English 233(P) or 234(P).

416 Poetry Workshop. 3 cr. U. Classroom analysis and discussion of student poetry. Content varies. Retakable to 6 cr max. Students may not enroll concurrently in a second section of English 416 or in English 414, 415, 615, or 616. Prereq: jr st; satisfaction of GER English Composition competency req; English 233(P) or 235(P).

417 Readings for Writers: (Subtitled). 3 cr. U. A literature course exploring literary traditions, formal or aesthetic problems of interest to creative writers. Retakable w/chg in topic to 6 cr max. Prereq: jr st; satisfaction of English Composition competency req; English 233(203)(P), 234(P), 235(P), or 236(204)(P).

611 (411) The Writer and the Current Literary Scene. 3 cr. U/G. Recent developments in the theory and techniques of contemporary fiction or nonfiction. Especially designed for creative writing students. Prereq: sr st, satisfaction of GER English Composition competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.

612 (412) Poetry and the Creative Process. 3 cr. U/G. The origin and development of poetic ideas and techniques. Designed especially for creative writing students. Prereq: sr st, satisfaction of GER English Composition competency req, & 3 cr in English 415(P), 416(P), 615(P), or 616(P); or grad st.

615 Advanced Workshop in Fiction. 3 cr. U/G. Intensive workshop critiques of student writing. Content varies. Retakable to 6 cr max. Prereq: sr st, English 415(P), one of second section of English 415(P) or English 414(P) or 416(P), satisfaction of English composition competency; or grad st.

616 Advanced Workshop in Poetry: (Subtitled). 3 cr. U/G. Intensive workshop critiques of student writing. Content varies. Retakable to 6 cr max. Prereq: sr st, 3 cr in English 416(P), one of second section of English 416(P) or English 414(P) or 415(P), & cons instr based on writing sample; or grad st.

L. Composition Concentration


426 Professional and Technical Communications Research. 3 cr. U. Research (e.g., observations, interviews, surveys, focus groups, card-sorting, usability testing) used by workplace communicators to resolve problems and ensure production of quality, user-based documentation products. Prereq: jr st or cons instr.

427 Writing for Nonprofits. 3 cr. U/G. Persuasive writing of advocacy genres, such as reports, letters, websites, and social media, produced by nonprofit organizations. Focus on theory, practice, collaboration, and service learning. No cr for students w/cr in English 431 w/same topic. Prereq: jr st.

428 Strategic Writing for Organizations. 3 cr. U. Analysis and creation of written responses to a wide variety
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
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<tbody>
<tr>
<td>429</td>
<td>Technical Communications and Professional Leadership</td>
<td>3</td>
<td>U</td>
<td>Technical writing and communication concepts for understanding leadership and problem-solving in organizations. Counts as repeat of English 428X. Prereq: jr st; satisfaction of GER English Composition competency req</td>
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<td>431 (effective 09/02/2015)</td>
<td>Topics in Advanced Communications: (Subtitled)</td>
<td>3</td>
<td>U/G</td>
<td>Seminar in the history, theory, or practice of professional, technical, medical, or science communications. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.</td>
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<td>431</td>
<td>Topics in Advanced Writing: (Subtitled)</td>
<td>3</td>
<td>U/G</td>
<td>Aspects of composition theory, history and practice applied to both the process and product of writing. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.</td>
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<td>432</td>
<td>The Rhetoric of Argument</td>
<td>3</td>
<td>U</td>
<td>Analytical survey of rhetorical methods and forms in argumentative discourse, the role of audience in argumentation, and ‘fields’ of argument. Prereq: jr st; satisfaction of GER English Composition competency req; grade of C or better in English 102(P), 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), or 240(P).</td>
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<tr>
<td>433</td>
<td>Creative Nonfiction for Publication</td>
<td>3</td>
<td>U/G</td>
<td>Writing in a variety of creative nonfiction formats, using literary techniques. Preparation of articles for submission to magazines, newspapers, newsletters, and educational publications. Prereq: jr st; satisfaction of GER English Composition competency req.</td>
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<tr>
<td>434</td>
<td>Editing and Publishing</td>
<td>3</td>
<td>U/G</td>
<td>Training and practice in editorial procedures; preparation of fiction/nonfiction manuscripts for book or journal publication; editorial rewriting; editing; copyediting; proofreading; fundamentals of layout/design. Prereq: jr st; satisfaction of GER English Composition competency req; 6 cr in English 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), 233(P), 234(P), 235(P), 236(P), 240(P), 414(P), 415(P), 416(P), 430(P), 431(P), 432(P), 433(P), 435(P), 436(P), 437(P), 615(P), or 616(P).</td>
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<tr>
<td>435</td>
<td>Professional and Technical Writing</td>
<td>3</td>
<td>U/G</td>
<td>The writing process in business, industry, and government, with intensive practice and analysis of professional writing and publishing techniques and products. Prereq: jr st; English 205(P), 206(P), or 207(P), or cons instr.</td>
</tr>
<tr>
<td>435 (effective 09/02/2015)</td>
<td>Professional and Technical Communications</td>
<td>3</td>
<td>U/G</td>
<td>The process of communications development in business, industry, and government, with intensive practice and analysis of professional writing and publishing techniques and products. Prereq: jr st; English 205(P), 206(P), or 207(P), or cons instr.</td>
</tr>
<tr>
<td>436 (effective 09/02/2015)</td>
<td>Technical Documentation</td>
<td>3</td>
<td>U/G</td>
<td>Theory, methods, and practice in writing clear, concise technical instructions; audience analysis, customer requirements, information architecture, training materials, web projects, and emerging technology discussion topics. Prereq: jr st; English 206(P) &amp; 435(P) or cons instr.</td>
</tr>
<tr>
<td>436</td>
<td>Writing for Information Technology</td>
<td>3</td>
<td>U/G</td>
<td>Theory, methods, and practice in writing clear, concise technical instructions; audience analysis, customer requirements, information architecture, training materials, web projects, and emerging technology discussion topics. Prereq: jr st; English 206(P) &amp; 435(P) or cons instr.</td>
</tr>
<tr>
<td>437</td>
<td>Project Management for Professional Writers</td>
<td>3</td>
<td>U/G</td>
<td>Major stages of the writing process in workplace contexts: research, analysis, project planning and management, document design, usability testing, and</td>
</tr>
</tbody>
</table>
438 Advanced Research Writing. 3 cr. U/G. Intensive instructions in methods and writing for research papers: audience analysis, bibliographic methods, computer searches, interpretation of data, style guides, abstracts and summaries and the publication process. Prereq: jr st; English 205(P) or cons instr.

439 Document Design. 3 cr. U/G. Development of technical writing projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication. Prereq: jr st; English 205(P), 206(P), or cons instr.

439 (effective 09/02/2015) Information Design. 3 cr. U/G. Development of technical communication projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication. Prereq: jr st; English 205(P), 206(P), or 207(P), or cons instr.

440 Introduction to Peer Tutoring and Practice. 3 cr. U/G. Students explore their own writing practices in light of rhetorical theory and learn to tutor others. Prereq: jr st; satisfaction of English Composition competency req. & English 201(P), 202(P), 205(P), 206(P), 207(P), or 233(P) w/grade of B- or better or cons instr; or grad st.

441 Advanced Peer Tutoring Theory and Practice. 3 cr. U/G. Students will examine various theories of literacy and learning, applying these theories to peer tutoring practice and testing their sufficiency through case-study research. Prereq: English 440(P) or cons instr.

442 Writing Center Tutoring Practicum. 1 cr. U/G. For prospective tutors, a foundation of concentrated study and practice to begin tutoring in UWM's Writing Center. Prereq: jr st; cons instr.

443 Grant Writing. 3 cr. U/G. Theory, methods, and practice in writing clear, concise grant proposals and related documents; audience analysis, rhetorical approaches, research methods, and online grantseeking. Counts as repeat of English 431 w/same topic. Req’d service learning component. Prereq: jr st; satisfaction of GER English Composition competency req.

444 Technical Editing. 3 cr. U/G. Theories, methods, and practice in editing professional and technical documents; grammar and usage; copyediting and comprehensive editing; editor-writer relationship; rhetorical, social, and audience analysis. Counts as repeat of English 431 w/same topic. Prereq: jr st; satisfaction of GER English Composition competency req.

445 The Composing Process: (Subtitled). 3 cr. U/G. Issues in composition studies, such as the theory and practice of writing, evaluation and assessment, and collaborative learning. Retakable w/chg in topic to 9 cr max for undergrads or 6 cr max for grads. Prereq: jr st, satisfaction of GER English Composition competency req, or cons instr; or grad st.

448 Professional Writing Theory and Practice. 3 cr. U. Orientation to the professional writing field through service learning experience in which students write for organizations. Application of professional writing theory to practice. Service Learning course. Prereq: jr st; completion of GER English Composition competency req; conc reg in English 398(C).

448 (effective 09/02/2015) Technical Communications Theory and Practice. 3 cr. U. Orientation to the technical communications field through service learning experience in which students write for organizations. Application of technical communications theory to practice. Service Learning course. Prereq: jr st; completion of GER English Composition competency req; conc reg in English 398(C).

449 Writing Internship in English. 1-4 cr. U. Experience in a professional setting that enables English majors to apply course work and writing skills and to gain experience toward career goals. Retakable to 9 cr max. Prereq: jr st, satisfaction of GER English Composition competency req, declared English major, & C or better in English
M. Advanced Film/Media/Digital Studies

312 Topics in Film Studies: (Subtitled). 3 cr. U. Study of stylistic, generic, historical, or theoretical issues in film studies. Retakable w/chg in topic to 9 cr max. English 312 & FilmStd 312 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P).

316 World Cinema: (Subtitled). 3 cr. U. National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms. Retakable w/chg in topic to 9 cr max. English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

320 Studies in Film Authorship: (Subtitled). 3 cr. U. The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star. Retakable w/chg in topic to 9 cr max. English 320 & FilmStd 320 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

329 Film and Literature. 3 cr. U/G. Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode. English 329 & FilmStd 329 are jointly offered; they count as repeats of one another. Prereq: jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.

380 Media and Society: (Subtitled). 3 cr. U/G. An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary. Retakable w/chg in topic to 9 cr max. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.

383 Cinema and Genre: (Subtitled). 3 cr. U/G. Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre. Retakable w/chg in topic to 9 cr max. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.

390 Classical Film Criticism and Theory. 3 cr. U/G. Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing. English 390 & FilmStd 390 are jointly offered; they count as repeats of one another. Prereq: jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.

391 Television Criticism and Theory. 3 cr. U/G. Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts. English 391 & FilmStd 391 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.

394 Theories of Mass Culture: (Subtitled). 3 cr. U/G. A survey of theories of mass culture relative to film from the late 19th century to the present. Retakable w/chg in topic to 9 cr max. English 394 & FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.

N. Other Advanced Courses

satisfaction of GER English Composition competency req.

452 Shakespeare. 3 cr. U/G. Works representing Shakespeare's career, selected from comedies, tragedies, histories, and poems. May be used as a repeat of 453 for students who have not taken English 452 previously. Prereq: jr st; satisfaction of GER English Composition competency req.


455 Writers in Drama: 3 cr. U/G. A significant dramatist or a combination of playwrights. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

456 Writers in English Literature, 1500-1660: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

457 Writers in English Literature, 1660-1798: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

458 Writers in English Literature, 1798-1900: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

459 Writers in English Literature, 1900 to the Present: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

460 Writers in American Literature, 1500-1900: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

461 Writers in American Literature, 1900 to the Present: (Subtitled). 3 cr. U/G. A significant literary figure or figures in the context of the period. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.


465 Women Writers: (Subtitled). 3 cr. U/G. One or more significant women writers. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.


514 Literature in Context: (Subtitled). 3 cr. U. Critical study of literary works in philosophical, social, scientific, or theological context. Retakable w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

515 Literature and the Other Arts: (Subtitled). 3 cr. U/G. Critical study of literary works in combination with works from the other arts. Retakable w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.


520 Studies in American Indian Literature: (Subtitled). 3 cr. U. Critical study of themes, figures, aspects, trends, etc., in American Indian literature. AIS 520 & English 520 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.


525 American Indian Literature, Culture, and Creative Arts. 3 cr. U/G. Critical methods in understanding indigenous literature, cultures, and creative arts; uses of arts in indigenous cultures; how arts influence people's views of indigenous peoples. AIS 525 & English 525 are jointly offered; they count as repeats of one another. Prereq: jr st; completion of GER English Composition competency req.

530 Studies in Shakespeare: (Subtitled). 3 cr. U. An examination of a particular aspect of Shakespeare's literary and dramatic achievements, this course will focus on a specific genre, technique or prevailing theme. Retakable
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>547</td>
<td>Studies in Theory and Criticism: (Subtitled)</td>
<td>3 cr.</td>
<td>U/G</td>
<td>jr st; satisfaction of GER English Composition competency req.</td>
</tr>
<tr>
<td>565</td>
<td>Introduction to Adult/University Level TESOL</td>
<td>3 cr.</td>
<td>U/G</td>
<td>jr st; satisfaction of GER English Composition competency req.</td>
</tr>
<tr>
<td>569</td>
<td>Internship in Teaching ESL to Adult Learners</td>
<td>3 cr.</td>
<td>U/G</td>
<td>jr st; satisfaction of GER English Composition competency req; cons instr.</td>
</tr>
<tr>
<td>620</td>
<td>Seminar in the Art of Literature: (Subtitled)</td>
<td>3 cr.</td>
<td>U/G</td>
<td>sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.</td>
</tr>
<tr>
<td>621</td>
<td>Seminar in the Literature of England: (Subtitled)</td>
<td>3 cr.</td>
<td>U/G</td>
<td>sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.</td>
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<tr>
<td>622</td>
<td>Seminar in Irish Literature: (Subtitled)</td>
<td>3 cr.</td>
<td>U/G</td>
<td>sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.</td>
</tr>
<tr>
<td>623</td>
<td>Seminar in American Literature: (Subtitled)</td>
<td>3 cr.</td>
<td>U/G</td>
<td>sr st, satisfaction of GER English Composition competency req; 9 cr English and/or CompLit courses at the 300-level or above; or grad st.</td>
</tr>
<tr>
<td>624</td>
<td>Seminar in Modern Literature: (Subtitled)</td>
<td>3 cr.</td>
<td>U/G</td>
<td>sr st, satisfaction of GER English Composition competency req; 9 cr English and/or CompLit courses at the 300-level or above; or grad st.</td>
</tr>
<tr>
<td>625</td>
<td>Seminar in Literary History: (Subtitled)</td>
<td>3 cr.</td>
<td>U/G</td>
<td>sr st, satisfaction of GER English Composition competency req; 9 cr English and/or CompLit courses at the 300-level or above; or grad st.</td>
</tr>
</tbody>
</table>
626 Seminar in Critical Theory: (Subtitled). 3 cr. U/G. An investigation into one or more critical theories and their contribution to the study of literature. Retakable w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

627 Seminar in Literature and Culture: (Subtitled). 3 cr. U/G. Intensive study of literature within its cultural context, stressing goals and methods of cultural criticism and research in connection with specific issues or topics. Retakable w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

628 Seminar in Literature by Women: (Subtitled). 3 cr. U/G. Focus on major writers or themes, or on a body of work that represents a variety of perspectives on gender issues. Retakable w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

629 Seminar in Literature and Sexuality: (Subtitled). 3 cr. U/G. Intensive study of the relationship between literature and human sexuality, focusing on particular periods, topics, or critical and aesthetic issues. Retakable w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

630 Seminar in Literature and the Other Arts: (Subtitled). 3 cr. U/G. Selections from literature in connection with works from the other arts ranging from the Middle Ages to the present, stressing the importance of an inter-arts perspective. Retakable w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

631 Seminar in African-American Literature: (Subtitled). 3 cr. U/G. Focus upon major writers or themes, or on a body of work that represents a variety of perspectives on African-American experience. Retakable w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English &/or CompLit at the 300-level or above; or grad st.

632 Seminar in American Indian Literature: (Subtitled). 3 cr. U/G. Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian. AIS 632 & English 632 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.

633 Seminar in Rhetoric and Writing: (Subtitled). 3 cr. U/G. Examination of a topic in rhetorical theory and its intersections with related fields such as cultural studies, literary criticism, literacy theory, or composition studies. Retakable w/chg in topic to 6 cr max. Satisfies L&S Seminar req. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

634 Seminar in English Language Studies: (Subtitled). 3 cr. U/G. Examination of a topic in the study of the English language, providing an opportunity to investigate an issue in language studies in depth. Retakable w/chg in topic to 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit courses at the 300-level or above; or grad st.

685 Honors Seminar: (Subtitled). 3H cr. U. Investigation in depth of a period, figure, theme, or genre in English or American literature. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.
60 Reading and Interactive Writing for Academic Purposes. 0 cr. U. Reading comprehension and writing skills; strategies to prepare students for academic and professional life. Retakable. No-cr course, contact ESL prog for course fees. Prereq: acceptance into ESL Prog; cons ESL dir.

70 Speaking and Listening. 0 cr. U. Conversational English skills in preparation for academic and professional life. Retakable. No-cr course, contact ESL prog for course fees. Prereq: acceptance into ESL Prog; cons ESL dir.

80 Writing and Grammar. 0 cr. U. Formal writing and grammar skills in preparation for academic and professional life. Retakable. No-cr course, contact ESL prog for course fees. Prereq: acceptance into ESL Prog; cons ESL dir.

90 Cooperative and Productive Skills. 0 cr. U. Integrated skills course assesses interactive speaking and listening plus one productive language skill at the appropriate CEFR level. Students work together to create a product. Retakable. No-cr course, contact ESL prog for course fees. Prereq: acceptance into ESL Prog; cons ESL dir.

105 (effective 09/02/2015) Skills for Academic Reading Success. 3 cr. U. Introduces ESL students to academic reading strategies and builds basic reading competence in English. Uses high-interest materials to invite engaging class discussions. Open only to students who are non-native speakers of English. Prereq: none.

115 Basic Writing in English as a Second Language. 6 cr. U. Introduction to academic writing practices. Intensive grammar review and vocabulary expansion with individualized instruction. Extensive reading and writing. For non-native speakers of English. No cr for students with cr in ESL 116. Prereq: score at level 1 on ESL-PIC test.

116 Introduction to College Writing in English as a Second Language. 6 cr. U. Rigorous introduction to academic writing practices, including reading-based writing. Thorough review of grammar, with individualized instruction. Extensive reading and writing. Prereq: score at level 2 on ESL-PIC test; or grade C or better in ESL 115(P).

117 College Writing in English as a Second Language. 6 cr. U. Guidance in analytical reading and academic writing plus intensive language work, with individualized instruction. Extensive reading and writing. Prereq: score at level 3 on ESL-PIC test; or grade C or better in ESL 116(P).

118 (effective 09/02/2015) Advanced College Writing in English as a Second Language/English 101. 3 cr. U. Prepares and qualifies ESL writers for English 102. Writing analytical essays based on academic reading. Counts as
118 Advanced College Writing in English as a Second Language. 3 cr. U. Prepares and qualifies ESL writers for English 102. Writing analytical essays based on academic reading. Prereq: score at level 4 on ESL-PIC test; or grade C or better in ESL 117(P); or grade B or better in ESL 116(P) & cons instr.

120 (effective 09/02/2015) Grammar and Editing in English as a Second Language. 3 cr. U. Grammar and editing instruction for international students and domestic students at any level whose home language is something other than English. Prereq: none.

120 Grammar and Editing in English as a Second Language. 3 cr. U. Grammar and editing instruction for writers who are non-native speakers of English. Prereq: none.

135 (effective 09/02/2015) Basic Skills in Academic Listening & Speaking. 3 cr. U. Academic presentation and lecture note-taking skills for English learners with little previous instruction or experience. Prereq: none.

145 (effective 09/02/2015) Practice in Academic Listening and Speaking. 3 cr. U. High level academic presentation and lecture note-taking practice for English learners ready to polish these skills. Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

420 (effective 09/02/2015) Advanced Reading, Writing, and Grammar Tune-up for Internationals. 4 cr. U. Refinement of advanced undergraduate and graduate students' language control; extensive reading, writing, and contextualized grammar; focus on American academic expectations. Individual conferences target unique needs. Prereq: jr st.

435 (effective 09/02/2015) Advanced Listening, Speaking, and Notetaking Skills for Internationals. 4 cr. U. Refining advanced students' academic listening and speaking skills; extensive pronunciation and intonation practice and feedback; focus on American academic expectations. Individual conferences target unique needs. Prereq: grad st.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.
199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

210 Introduction to Conservation and Environmental Science. 3 cr. U. Relations between human populations and resource depletion, pollution and ecosystem disturbance; search for solutions. Discussion section includes some community activities with environmental organization. 2 hrs lec, 1 hr dis Prereq: none.

289 Internship in Environmental Studies, Lower Division. 1-6 cr. U. Application of basic principles of environmental studies in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in CES; 2.50 gpa; cons supervising faculty member.

290 Seminar: Cool Power to Slow Global Warming. 3 cr. U. Climate change - myth? science? Global warming causes; energy for sustainability; non-renewable (coal, oil, nuclear power), renewable (sun, wind, hydro, biomass, biogas) sources; predictions for 2050. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

461 The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) and Global 361(C), or cons instr.

461 (effective 09/02/2015) The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.
**471 (effective 09/02/2015) Practicum in Natural Resources Management. 4 cr. U/G.** Preparation and presentation of a natural resource or environmental management plan for a real-world client. 3 hrs lec, 1 hr dis.|Prereq: sr st; Bio Sci 310(P); declared CES major; or cons instr.

**471 Principles of Natural Resources Management. 3 cr. U/G.** Environmental issues and problems from an interdisciplinary perspective; principles in the management and maintenance of natural resources. 3 hrs lec.|Prereq: jr st; Bio Sci 310(P).

**489 Internship in Environmental Studies, Upper Division. 1-6 cr. U.** Application of advanced principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.|Prereq: jr st; 300-level or above course in Conservation & Environmental Sciences; 2.5 gpa; cons supervising faculty member.

**490 Senior Seminar: Conservation and Environmental Science. 1 cr. U.** Examination of conservation literature and preparation, presentation, and discussion of oral reports by individual students.|Prereq: sr st; Conservation & Environmental Sciences major or Bio Sci major.

**497 Study Abroad: (Subtitled). 1-12 cr. U.** Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|Retakable w/chg in topic.|Prereq: jr st; acceptance for Study Abroad Prog.

**499 Ad Hoc: (Subtitled). 1-6 cr. U.** Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic.|Prereq: jr st; add'l prereqs may be assigned to specific topic.

**550 Introduction to Science Interpretation. 3 cr. U/G.** Concepts and practices of presenting science information for audience understanding of impact of science on daily life. Interpretation techniques for science content in nonformal settings.|Prereq: jr st; CES 210(P) or cons instr.

**551 Application of Science Interpretation. 3 cr. U/G.** Building upon CES 550, application of skills and knowledge to interdisciplinary environmental issues.|Prereq: jr st; CES 550(P).

**571 Practical Approaches to a Sustainable Future. 3 cr. U.** Natural ecological principles used to develop sustainable human-influenced environments. Emphasis on practical solutions to assess and develop alternative sustainable human agroecological models.|Counts as a repeat of CES 499 w/similar topic.|Prereq: jr st; grade C or better in CES 210(P).

**699 Advanced Independent Study. 1-3 cr. U.** Advanced level independent work under the supervision of CES faculty or academic staff member.|Retakable w/chg in topic to 9 cr max.|Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

*This course information produced at 01:00 on 07/30/2015.*
101 The Making of American Cultures: Africans, Europeans, and Indian Nations. (Subtitled). 3 cr. U. Origins and development of racial and ethnic identities in the Americas; specific attention to Wisconsin history; African-American, American Indian, Latino, Euro-American identities; relationships among them. 2 hrs lec, 1 hr dis.|Not retakable for cr; may be repeated for higher grade. Prereq: none.

102 Transnational Migrations: Asian-, Arab-, Euro-American and Latino Identity. 3 cr. U. Modern and contemporary social and cultural processes of migration and identity; role of law as 'gatekeeping'; history of nativism, interethnic relations, and community formation.|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study: Lower Division. 1-3 cr. U. For further information, consult Ethnic Studies coordinator.|Retakable w/chg in topic to 9 cr max. Prereq: 2.25 gpa on at least 12 graded cr; writ cons instr & prog coord.


250 Selected Topics in Ethnic Studies: (Subtitled). 3 cr. U. This course will focus on one individual ethnic group, or one particular aspect of an ethnic group.|Retakable w/chg in topic to 9 cr max. Prereq: none.

255 Migration and Gender: Starbucks, Sex Trafficking, and Nannies. 3 cr. U. Changing roles of women in the global marketplace; effects of migration on gender and family life.|Counts as a repeat of Ethnic 250 with similar title.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>265</td>
<td>Hmong Americans: History, Culture, and Contemporary Life.</td>
<td>3 cr.</td>
<td>U. Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America. Ethnic 265 &amp; Hmong 265 are jointly offered; they count as repeats of one another.</td>
<td>none.</td>
</tr>
<tr>
<td>275</td>
<td>Queer Migrations.</td>
<td>3 cr.</td>
<td>U. How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities.</td>
<td>none.</td>
</tr>
<tr>
<td>285</td>
<td>Cultures of Contemporary Russia.</td>
<td>3 cr.</td>
<td>U. Ethnic conflict and struggles over language, territory, culture, and politics after the dissolution of the Soviet Union. Counts as a repeat of Ethnic 250 w/similar title.</td>
<td>none.</td>
</tr>
<tr>
<td>289</td>
<td>Internship in Ethnic Studies, Lower Division.</td>
<td>1-6 cr.</td>
<td>U. Application of basic principles of ethnic studies in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.</td>
<td>none.</td>
</tr>
<tr>
<td>297</td>
<td>Study Abroad: (Subtitled).</td>
<td>1-12 cr.</td>
<td>U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic.</td>
<td>none.</td>
</tr>
<tr>
<td>299</td>
<td>Ad Hoc: (Subtitled).</td>
<td>1-6 cr.</td>
<td>U. Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic.</td>
<td>none; add'l prereq may be assigned to specific topic.</td>
</tr>
<tr>
<td>325</td>
<td>Gender, Race, and Ethnicity in Milwaukee: (Subtitled).</td>
<td>3 cr.</td>
<td>U. Influxes into the U.S. of migrants from Europe, Latin America, and elsewhere; evolution of conflict and division; particular attention to Civil Rights and deindustrialization. Retakable w/chg in topic to 9 cr max.</td>
<td>jr st.</td>
</tr>
<tr>
<td>325</td>
<td>Gender, Race, and Ethnicity in Milwaukee: (Subtitled).</td>
<td>3 cr.</td>
<td>U. Influxes into the U.S. of migrants from Europe, Latin America, and elsewhere; evolution of conflict and division; particular attention to Civil Rights and deindustrialization. Retakable w/chg in topic to 9 cr max.</td>
<td>jr st.</td>
</tr>
<tr>
<td>350</td>
<td>Advanced Topics in Comparative Ethnic Studies: (Subtitled).</td>
<td>3 cr.</td>
<td>U. Various advanced topics in the field of comparative ethnic studies. Retakable w/chg in topic to 9 cr max. Prereq: Ethnic 101(P); 102(P), or 250(P), or cons instr.</td>
<td>none.</td>
</tr>
<tr>
<td>355</td>
<td>Muslims and American Popular Culture.</td>
<td>3 cr.</td>
<td>U. History of Muslims in American pop culture; sub-cultures of various Muslim ethnic groups from the perspective of film, literature, and music. Prereq: jr st or Ethnic 101(P) or 102(P).</td>
<td></td>
</tr>
<tr>
<td>375</td>
<td>Global Violence, Disease, and Death.</td>
<td>3 cr.</td>
<td>U. Development schemas, health policies, and the role of international organizations in global incidents of suffering, violence, and death. Prereq: jr st or Ethnic 101(P) or 102(P).</td>
<td></td>
</tr>
<tr>
<td>489</td>
<td>Internship in Ethnic Studies, Upper Division.</td>
<td>1-6 cr.</td>
<td>U. Application of advanced principles of ethnic studies in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.</td>
<td>jr st; 300-level or above course in ethnic stds; 2.25 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>497</td>
<td>Study Abroad: (Subtitled).</td>
<td>1-12 cr.</td>
<td>U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic.</td>
<td>jr st; acceptance for Study Abroad Prog.</td>
</tr>
</tbody>
</table>
499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

550 Senior Seminar in Comparative Ethnic Studies: (Subtitled). 3 cr. U. Focus on specific aspects (social, cultural) of ethnic and racial identity, based on readings and presentation of original student research. Topic varies; not retakable for cr. May be repeated for higher grade. Satisfies L&S Seminar req. Prereq: sr st; cons instr.

699 Advanced Independent Work. 1-3 cr. U. See Independent Study. For further information consult Ethnic Studies coord. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.
EXCEDUC Exceptional Education

This course information produced at 01:00 on 07/30/2015.

200 Fieldwork in Exceptional Education: (Subtitled). 1-4 cr. U. Field experience designed to allow pre-education students to participate and observe in exceptional education setting. Cr/no cr only. Fieldwork may not be dropped after the second week of classes. May be retaken with change in topic to max of 6 cr. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: cons instr; acceptance for Study Abroad Prog.

299 Independent Reading. 1-3 cr. U. Retakable to max of 6 cr. Prereq: cons instr.

300 The Exceptional Individual. 3 cr. U. An introduction to etiology, historic background, current service provisions, and issues and trends related to individuals with learning, sensory, behavioral, or physical handicapping conditions. Prereq: none.

301 American Sign Language I. 3 cr. U. This course will introduce basic American Sign Language structure and study of deaf culture. Basic fingerspelling principles are also introduced. Prereq: none.

302 American Sign Language II. 3 cr. U. This course will continue skills in American Sign Language, fingerspelling and the study of deaf culture. Prereq: C or better in ExcEduc 301(P) or Level 1 ASLPI score.

303 American Sign Language III. 3 cr. U. Focus is on the development of intermediate level skills in American Sign Language, its structure and study of deaf culture. Prereq: C or better in ExcEduc 302(P) or Level 1+ ASLPI score.

304 American Sign Language IV. 3 cr. U. Focus on the continuing development of intermediate level skills in American Sign Language, its structure and the study of deaf culture. Prereq: C or better in ExcEduc 303(P) or Level 2 ASLPI score.

305 American Sign Language V. 3 cr. U. Advanced American Sign Language focusing on classifiers, fingerspelling, numeric techniques and grammar. Prereq: C or better in ExcEduc 304 (P) or Level 2+ ASLPI score.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>320</td>
<td>Introduction to Interpreting: English to American Sign Language</td>
<td>3</td>
<td>U</td>
<td>Theoretical and practical examination and development of various techniques of interpreting from English into American Sign Language through discourse analysis. Prereq: grade of B or better in ExcEduc 303(P).</td>
</tr>
<tr>
<td>321</td>
<td>Introduction to Interpreting: American Sign Language to English</td>
<td>3</td>
<td>U</td>
<td>Theoretical and practical examination and development of various techniques of interpreting from American Sign Language to English through discourse analysis. Prereq: grade of B or better in ExcEduc 303(P).</td>
</tr>
<tr>
<td>330</td>
<td>Deaf History</td>
<td>3</td>
<td>U</td>
<td>History of the Deaf Community in America primarily as well as in other countries. Prereq: none.</td>
</tr>
<tr>
<td>345</td>
<td>Interpreting Skill Development I</td>
<td>3</td>
<td>U</td>
<td>Techniques for changing an auditory English message into American Sign Language and vice versa. Prereq: jr st &amp; admis to ITP or cons instr.</td>
</tr>
<tr>
<td>346</td>
<td>Skill Development: Semantics</td>
<td>3</td>
<td>U</td>
<td>Analysis of American Sign Language linguistics semantics. Focus of individual sign meanings, semantic grammar structure including colloquialisms and cultural influences on meanings of signs. Prereq: C or better in ExcEduc 304(P) or Level 2+ ASLPI score.</td>
</tr>
<tr>
<td>347</td>
<td>English Skills Development</td>
<td>3</td>
<td>U</td>
<td>Development of English skills for the purposes of providing appropriate interpretations. Not open to students with cr in ExcEduc 326(426). Prereq: admis to ITP or cons instr.</td>
</tr>
<tr>
<td>348</td>
<td>Introduction to the Profession of Interpreting</td>
<td>3</td>
<td>U</td>
<td>Introduction to the professions and practices of interpreting. Focus on its history, philosophies, ethics, roles, resources and credentialing within the profession. Prereq: none.</td>
</tr>
<tr>
<td>350</td>
<td>Interpreting: Spoken English to ASL II</td>
<td>3</td>
<td>U</td>
<td>Practical application of the process of taking a spoken English message and converting it into American Sign Language. Emphasis on the consecutive mode. Not open for cr to students with cr in ExcEduc 315. Prereq: jr st &amp; admis to ITP, or cons instr.</td>
</tr>
<tr>
<td>351</td>
<td>Interpreting ASL to Spoken English II</td>
<td>3</td>
<td>U</td>
<td>Continues to develop the skill of changing a message signed in ASL into spoken English. Consecutive mode practiced; individual appointments emphasized. Not open for cr to students with cr in ExcEduc 316. Prereq: admis to ITP, ExcEduc 345(P).</td>
</tr>
<tr>
<td>352</td>
<td>American Deaf Culture</td>
<td>3</td>
<td>U</td>
<td>The impact of Deaf culture on the Deaf community and Deaf education, understanding the Deaf person in a cultural context. Not open for cr to students with cr in ExcEduc 340(650). Prereq: none.</td>
</tr>
<tr>
<td>353</td>
<td>Introduction to Culturally Diverse Community Resources</td>
<td>3</td>
<td>U/G</td>
<td>Overview of community resources serving consumers with hearing impairments. Professionals and consumers from agencies and organizations will address needs as they relate to interpreting. Not open for cr to students with cr in ExcEduc 342(421). Prereq: jr st &amp; admis to ITP, or grad st, or cons instr.</td>
</tr>
<tr>
<td>354</td>
<td>Field work: Interacting in the Deaf Community II</td>
<td>3</td>
<td>U/G</td>
<td>Continuation of ExcEduc 349: requires time observing, interpreting, teaching and community interaction. Weekly seminars continue to provide forum for processing of experiences. Not open for cr to students with cr in ExcEduc 323(658). Prereq: jr st &amp; admis to ITP, &amp; ExcEduc 349(P); or grad st.</td>
</tr>
<tr>
<td>355</td>
<td>Interpreting: ASL to Spoken English III</td>
<td>3</td>
<td>U</td>
<td>Developing intermediate to advanced skills in simultaneously converting American Sign Language to spoken English. Not open for cr to students with cr in ExcEduc 318 or 319.</td>
</tr>
</tbody>
</table>
Prereq: ExcEduc 345(P) & 350(P); & admis to ITP.

356 Transliteration II. 3 cr. U. Skills and theory necessary to change a spoken English message into the form of a signed English message and vice-versa. Not open for cr to students with cr in ExcEduc 327 or 328. Prereq: admis to ITP, or cons instr.

357 (341) Issues and Trends for Educational Interpreters. 3 cr. U. Historical and current issues affecting the education of students who are deaf and hard-of-hearing and their influence on the field of educational interpreting. Prereq: admis to ITP.

358 ASL/English Linguistics I. 3 cr. U/G. The linguistics of American Sign Language, exploring its structure and grammar, emphasizing its phonology and its comparison to English. Prereq: C or better in ExcEduc 306(P).

359 Fieldwork: Interacting in the Deaf Community III. 3 cr. U. Continuation of ExcEduc 323: requires greater emphasis on interpreting, less on observation, teaching and community interaction. Weekly seminar continues for processing of experiences. Not open for cr to students with cr in ExcEduc 324. Prereq: ExcEduc 354(P) or 349(P); & admis to ITP.

360 Transliteration/Oral I. 3 cr. U. Introduction of the mechanics and skills needed for Transliteration and Oral Interpreting. Not open to students with cr in ExcEduc 320. Prereq: admis to ITP, ExcEduc 350(P) & 355(P); or cons instr.

361 Interpreting: Spoken English to ASL III. 3 cr. U. Developing intermediate to advanced skills in simultaneously converting spoken English into American Sign Language. Students will work with a variety of stimulus materials. Not open for cr to students who have cr in ExcEduc 321. Prereq: admis to ITP, ExcEduc 351(P) & 355(P), or cons instr.

362 (344) Specialized Interpreting Across Diverse Settings. 3 cr. U. Guidelines for interpreting, transliterating, and voicing in a variety of settings, including vocational, legal, health related and performing arts. Prereq: admis to ITP.

363 ASL/English Linguistics II. 3 cr. U/G. Focus on the linguistics of American Sign Language, including emphasis on its morphology and syntax and its comparison to English. Prereq: jr st, C or better in ExcEduc 358(P), or cons instr.

364 Fieldwork: Interacting in the Deaf Community IV. 6-12 cr. U. Continuation of ExcEduc 359: requiring 70% focus on actual interpreting, the remainder on observation, teaching and community interaction. Seminar offers forum for processing experiences. May be retaken to 12 cr max. Not open for cr to students with cr in ExcEduc 325. Prereq: ExcEduc 354(P) & 359(P) & admis to ITP.

371 (effective 05/23/2016) Strategies for the National Interpreter Certification Exam. 1 cr. U. Techniques and strategies for the knowledge and ethical skills required for the RID-NIC Knowledge Exam. Prereq: grade of B- or better in ExcEduc 354(P).

375 Using Interactive Whiteboards for Teaching and Learning. 1 cr. U. Interactive whiteboards in K-12 classrooms; hardware basics, using software to achieve pedagogical goals, interactive lesson plans. Jointly offered with and counts as repeat of CurrIns 375. Prereq: none.

376 Understanding and Developing the edTPA. 1 cr. U. In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries. Jointly offered with and counts as repeat of CurrIns 376. Prereq: none.


456 Seminar in Student Teaching. 1-3 cr. U. Discussion seminar designed to bring continuity to the professional
semester. Material will relate directly to the concurrent practicum experience of the students. Prereq: jr st & conc reg in student teaching.

472 Student Teaching with Students Having Hearing Impairments. 1-12 cr. U. May be retaken to 15 cr max. Prereq: sr st & cons dept; ExcEduc 650(P).

473 Student Teaching with Students Having Cognitive Disabilities. 1-12 cr. U. May be retaken to 15 cr max. Prereq: sr st & cons dept; ExcEduc 640(P).

475 Student Teaching with Students Having Emotional Disturbance. 1-12 cr. U. May be retaken to 15 cr max. Prereq: sr st & cons dept; ExcEduc 620(P).

478 Student Teaching with Students Having Learning Disabilities. 1-12 cr. U. May be retaken to 15 cr max. Prereq: sr st & cons dept; ExcEduc 610(P).

481 Student Teaching with Students Having Early Childhood Exceptional Ed Needs. 1-12 cr. U. May be retaken to 18 cr max. Prereq: sr st & cons dept; ExcEduc 630(P).

486 Linking Seminar I: Teaching in Urban Schools. 1-3 cr. U. Links formal course work and teaching experience. Focus on teaching in urban schools, accommodating diverse learners developing reflective practice and/or creating a professional development portfolio. Not retakable for cr. Prereq: admis to School of Educ, ExcEduc 586(C).

487 Linking Seminar II: Primary/Middle-Behavioral Support, Planning, Assessment. 1 cr. U. Links formal course work and teaching experience. Focus on becoming a reflective practitioner and development as a special education teacher. Cr/no cr only; prereq: jr st; admis Post-Bac Cert prog or cons instr.

488 Linking Seminar III: Primary/Middle - Professional Development. 1 cr. U. Links formal coursework and teaching experience. Focus on teacher as advocate and change agent and professional development. Cr/no cr only; conc reg in ExcEduc 588 & 572. Prereq: jr st; admis to Post-Bac Cert prog.

489 Linking Seminar II: Middle/High-Behavioral Support, Planning & Assessment. 1 cr. U. Links formal coursework and teaching experience. Focus on organizing for instruction and emotional/behavioral support at the middle and high school level. Prereq: ExcEduc 635(C) & 587(C); admis to ExcEduc prog; or cons instr.

490 Linking Seminar III: Middle/High - Professional Development. 1 cr. U. Links formal course work and teaching experience. Focus on supporting students with behavioral challenges, planning for and managing day-to-day teaching responsibilities, transition planning. Prereq: admis to School of Educ.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: jr st, cons instr, acceptance for Study Abroad Prog.

500 Fingerspelling & Numbers. 3 cr. U/G. Introduction to fingerspelling and numbers in ASL. Prereq: jr st; C or better in ExcEduc 304(P) or Level 2+ ASLPI score.

510 Classifiers. 3 cr. U/G. Study of the classifier system of ASL. Prereq: jr st; C or better in ExcEduc 305(P) or 306(P).

520 ASL Literature. 3 cr. U/G. Introduction to the analysis of ASL Literature. Prereq: jr st; C or better in ExcEduc 305(P) or 306(P).

531 Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language. 3 cr. U/G. Understanding the needs of secondary level students with handicaps, emphasizing methods of assessment and programming in mainstreamed settings. Counts as repeat of ExcEduc 530 and 605. Prereq: jr st & admis to School of Educ; or grad st.
532 Assessment and Monitoring. 3 cr. U/G. Roles and responsibilities in district-wide and alternative assessment, developing monitoring systems, report writing, equitable and just assessment practices. Prereq: admis to Post-Bac Cert prog or cons instr.


536 Inclusion for Secondary Science and Math Educators. 1 cr. U/G. History and legislation related to Special Education, characteristics of various disabilities, overview of universal design for learning (UDL), and accommodations and modifications of curriculum and instruction to meet the needs of all learners.

537 Math and Science Methods for All Learners. 1 cr. U/G. Lesson and unit planning that incorporates curriculum and instructional strategies designed to include students with identified disabilities, in collaboration with special educators. Prereq: jr st; admis to teacher cert prog.

538 Teaching Math and Science to All Learners. 1 cr. U/G. Practicum working with students with disabilities in general education settings focused on the planning and delivery of lessons in inclusive classrooms, in collaboration with special educators. Prereq: jr st; admis to teacher cert prog.

539 Communication in the Classroom I: Deaf/Hard of Hearing. 3 cr. U/G. Developing proficiency and instructional skills in using manual communication for individuals who are deaf or hard of hearing in the educational context. Prereq: must pass competency test in basic aspects of manual communication prior to registration; jr st; admis to Post-Bac Cert prog or cons instr.

558 Communication in the Classroom II: Deaf/Hard of Hearing. 3 cr. U/G. Linguistic analysis and curriculum planning for facilitating the development of communication in students who are deaf or hard of hearing. Prereq: ExcEduc 680(P) & 681(P). Admis to Post-Bac Cert prog or cons instr.

560 Foundations of Autism Spectrum Disorders. 3 cr. U/G. Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives. Prereq: jr st or cons instr; grade of C or better in English 102(P) or score at level 4 on EPT.


562 Hearing Science. 3 cr. U/G. Overview of physical and psycho-physical concepts of hearing science, speech mechanism, audiological evaluation and implications for the educational context. Prereq: admis to Post-Bac Cert prog or cons instr.

563 Speechreading/Auditory Rehabilitation. 3 cr. U/G. Techniques for teaching speech, speechreading, listening, and auditory training for children who are deaf or hard of hearing. Prereq: admis to Post-Bac Cert prog or cons instr; ExcEduc 562(P); jr st.

564 Communication Methods Practicum. 3 cr. U/G. Field experience with individuals with hearing impairments in schools. Emphasis on spoken and sign language development. Includes scheduled class and demonstrations. Prereq: jr st; admis to School of Educ or grad st; ExcEduc 541, 562 & 563, or cons instr.

565 Techniques of Teaching School Subjects to Individuals w/Hearing Impairments II. 3 cr. U/G. Methods of teaching social studies, science, and mathematics as related to the language needs of students with hearing impairments and academic deficiencies. Prereq: jr st & admis to School of Educ, or grad st; ExcEduc 560 & 561 or cons instr.

568 Curriculum and Methods for Special Education: Birth to Three. 3 cr. U/G. Designed for teachers serving
infants and toddlers with disabilities and their families.|Prereq: jr st; admis to ExcEduc prog; ExcEduc 647(C).


571 Curriculum Accommodations I: Primary/Middle. 1-3 cr. U/G. Determine individualized goals within a broad curriculum framework and develop strategies for making accommodations in teaching methods, materials and class set-up.|Retakable to 6 cr max. Prereq: admis to Post-Bac Cert prog or cons instr; jr st; ExcEduc 587(C).

574 Curriculum Accommodations II: Primary/Middle. 3 cr. U/G. In-depth experience in IEP planning and scheduling to accommodate students with highly individualized needs within the academic curriculum.|Prereq: ExcEduc 571(P), 588(C). Admis to post-bac cert prog or cons instr.

576 Curriculum Accommodations III: Functional for Middle to High Students. 3 cr. U/G. Planning and scheduling for students with highly individualized goals, including school-to-work, while striving to integrate these goals into a well-coordinated program.|Prereq: admis to Post-Bac Cert prog or cons instr.

579 Current Topics in Exceptional Education: (Subtitled). 1-3 cr. U/G. Specific topic announced in Schedule of Classes each time course is offered.|May be repeated with change in topic to max of 9 cr. Prereq: jr st.


581 Youth Work Practice. 3 cr. U/G. Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.|Ed Pol/ExcEduc/Soc Wrk 581 are jointly offered & count as repeats of each other. Prereq: jr st; Ed Pol/ExcEduc/Soc Wrk 580(P); or grad st or cons instr.

585 Supervised Practicum in Child and Youth Care. 2-4 cr. U/G. Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorally, cognitively and/or physically disabled youth.|Ed Pol/ExcEduc 585 are jointly offered & count as repeats of each other. Prereq: jr st; Ed Pol/ExcEduc/Soc Wrk 580(P), or grad st; cons instr.

586 Teaching Experience I. 1-12 cr. U/G. Placement with a regular education teacher. Focus on understanding regular curriculum framework and experience teaching small groups.|Cr/no cr only; may be retaken to 15 cr max. Prereq: jr st; admis to Post-Bac Cert prog.

587 Teaching Experience II. 1-12 cr. U/G. Placement with exceptional education teacher. Focus on small group instruction, understanding teaching responsibilities and collaboration. On-the-job option available through application.|May be retaken to 15 cr max. Prereq: jr st; admis to cert prog in ExcEduc; or cons instr.

588 Teaching Experience III. 1-12 cr. U/G. Placement with exceptional education teacher. Full teaching responsibility is assumed. On-the-job option available through special application.|May be retaken to 15 cr max. Prereq: jr st; admis to cert prog in ExcEduc; or cons instr.

589 Workshop in Exceptional Education: (Subtitled). 1-6 cr. U/G. Variable content format examines assessment and/or methodological strategies appropriate for educators working with broad range of handicapped children and adolescents.|May be retaken with change of topic to max of 6 cr. Prereq: jr st; cons instr or workshop dir.

595 Technology Applications for Diverse Learners. 3 cr. U/G. Explores the use of technology to enhance the academic performance of diverse students in inclusive classrooms.|Prereq: jr st.
<table>
<thead>
<tr>
<th>Course Number</th>
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<th>Credits</th>
<th>Prerequisites/Notes</th>
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<tbody>
<tr>
<td>600</td>
<td>Survey of Exceptional Education</td>
<td>3 cr.</td>
<td>U/G. History, theories, research, and practices related to individuals with learning, sensory, behavioral or physical handicapping conditions. Prereq: sr st &amp; admis to School of Educ; or grad st.</td>
</tr>
<tr>
<td>601</td>
<td>Behavioral Supports</td>
<td>3 cr.</td>
<td>U/G. Addresses needs of students with challenging behaviors. Emphasis on working collaboratively to conduct functional behavioral analysis. Prereq: admis to Post Bac Cert prog or cons instr.</td>
</tr>
<tr>
<td>602</td>
<td>Resources and Instruction in American Sign Language</td>
<td>3 cr.</td>
<td>U/G. Course focuses on assessment and methodology components in teaching ASL as a foreign language. Prereq: jr st.</td>
</tr>
<tr>
<td>605</td>
<td>Child, Learner, Disabilities</td>
<td>3 cr.</td>
<td>U/G. Perspectives on disability; learning characteristics associated with disabilities; historical, legal and philosophical foundations; child mentoring and advocacy linked with a family-based practicum. Counts as repeat of ExcEduc 530 and 531. Prereq: admis to Post-Bac Cert prog or cons instr.</td>
</tr>
<tr>
<td>607</td>
<td>Working with Culturally Diverse Deaf Students</td>
<td>3 cr.</td>
<td>U/G. Discusses the educational and culturally diverse backgrounds of deaf students in the schools. Counts as repeat of ExcEduc 579 with similar topic. Prereq: none.</td>
</tr>
<tr>
<td>631</td>
<td>Methods for Teaching Commun Skills to Students with Severe Disabilities</td>
<td>3 cr.</td>
<td>U/G. Study of assessment, instructional, and augmentative techniques for teaching and providing communication (vocal and non-vocal) to students with severe disabilities. Prereq: sr st; ExcEduc 665(410)(P), ComsDis 240(P), or cons instr.</td>
</tr>
<tr>
<td>632</td>
<td>Interdisciplinary Team Field Experience in Urban Settings</td>
<td>2 cr.</td>
<td>U/G. Field experience is designed to develop student's skills as members of interdisciplinary teams in urban community settings. Prereq: jr st; ExcEduc 634(C).</td>
</tr>
<tr>
<td>633</td>
<td>Collaborative Consultation/Teaming-Serving Young Children with Disabilities</td>
<td>3 cr.</td>
<td>U/G. Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings. ExcEduc 634, Occthpy 634, &amp; ComSDis 634 are jointly offered; they count as repeats of one another. Prereq: jr st.</td>
</tr>
<tr>
<td>635</td>
<td>Individualized Planning &amp; Instructional Methods</td>
<td>2 or 3 cr.</td>
<td>U/G. Methods and strategies for teaching and evaluating adolescents with disabilities. Special emphasis given to individual educational programs, lesson planning and scheduling. Prereq: jr st; admis to Post-Bac cert prog or cons instr; ExcEduc 487(C) &amp; 587(C) or cons instr.</td>
</tr>
<tr>
<td>636</td>
<td>Curriculum Accommodations</td>
<td>2 or 3 cr.</td>
<td>U/G. Methods and strategies for teaching and evaluating adolescents with learning disabilities, emotional disturbance and cognitive disabilities. Special emphasis given to developing individual adaptations and modifications. Prereq: jr st; admis to Post-Bac Cert prog or cons instr; ExcEduc 635(P); 488(C) &amp; 588(C) or cons instr.</td>
</tr>
<tr>
<td>644</td>
<td>Enhancing Literacy Learning for Diverse Learners</td>
<td>3 cr.</td>
<td>U/G. Teaching reading and writing to diverse learners. Jointly offered with &amp; subtitles count as repeat of same title of CurrIns 644. CurrIns 644 &amp; ExcEduc 644 may be retaken with change of topic to combined 9 cr max. Prereq: currently teaching with at least 2 yrs experience; cons instr.</td>
</tr>
<tr>
<td>647</td>
<td>Early Childhood Special Education Field Experience: 0 to 3 Yrs</td>
<td>3 cr.</td>
<td>U/G. Provides urban experiences in early intervention programs to develop teaching skills in birth to three programs. Prereq: jr st; admis to ExcEduc prog.</td>
</tr>
<tr>
<td>648</td>
<td>Early Childhood Special Education Field Experience: Preschool</td>
<td>3 cr.</td>
<td>U/G. Practicum provides urban teaching</td>
</tr>
</tbody>
</table>
experiences in preschool programs to develop skills for working with 3-to-5 year olds with special needs and their families. | Prereq: jr st; admis to ExcEduc prog; ExcEduc 569(C).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>U/G</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>649</td>
<td>Early Childhood Special Education Field Experience: Primary</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: jr st; admis to ExcEduc prog; ExcEduc 570(C).</td>
</tr>
<tr>
<td>651</td>
<td>Working With Families in Urban Communities</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: jr st</td>
</tr>
<tr>
<td>655</td>
<td>Introduction to Education of Individuals Who are Deaf and Hard of Hearing</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: jr st</td>
</tr>
<tr>
<td>662 (731)</td>
<td>Collaborative Strategies</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: jr st; ExcEduc 300(P), 600(P), or 605(P); admis to Post-Bac Cert prog or cons instr.</td>
</tr>
<tr>
<td>665</td>
<td>Language and Literacy for the Exceptional Student</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: ExcEduc 300 or equiv; ComsDis 240; jr st &amp; admis to School of Educ or grad st.</td>
</tr>
<tr>
<td>671</td>
<td>Behavior Support &amp; Intervention for Mid/High Students with Disabilities</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: admis to Middle/High prog; cons instr.</td>
</tr>
<tr>
<td>676</td>
<td>Learning Strategies II: Cognitv/Metacognitv Intervntns-Mild Hndicppd Stdnts</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: jr st; ExcEduc 675; cons instr; teacher certification.</td>
</tr>
<tr>
<td>680</td>
<td>Literacy I</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: admis to the Post-Bac Cert prog or cons instr.</td>
</tr>
<tr>
<td>681</td>
<td>Literacy II</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: ExcEduc 680(P); admis to the Post-Bac Cert prog or cons instr.</td>
</tr>
<tr>
<td>682</td>
<td>Language and Literacy in Early Childhood Special Education</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: jr st; admis to Post-Bac cert prog, or cons instr.</td>
</tr>
<tr>
<td>684</td>
<td>Multisensory Structured Language Teaching</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: Post-bac status or cons instr.</td>
</tr>
<tr>
<td>685</td>
<td>Advanced Methods in Learning Disabilities</td>
<td>3 cr</td>
<td>U/G</td>
<td>Prereq: Post-bac status or cons instr.</td>
</tr>
</tbody>
</table>
of ExcEduc 589 with same topic. Prereq: grad st or admis to Post-Bac Cert prog or cons instr.

699 Independent Reading. 1-3 cr. U/G. Prereq: jr st & admis to School of Educ or grad st; cons instr.
FILM Film, Video, Anim & New Genres

114 (214) Film and Experience: The Filmmaker and the Viewer. 3 cr. U. Consideration of film as an experience--aesthetic, physical, psychological, social, and historical--for both the filmmaker and the viewer. | Prereq: none.

115 Media Archaeology. 3 cr. U. A course for beginning media artists, this is a hands-on journey into the language of media using case studies from the past four hundred years. | Prereq: Film 116(C) recom.

116 Listening and Recording. 3 cr. U. Development of perceptual and expressive competencies using low-cost tools, fieldwork, and the web in response to historical and contemporary issues facing media artists. | Prereq: none.

117 Filmmaking Technologies and Techniques. 3 cr. U. Fundamentals of still & motion picture image making, incl lighting, exposure, composition, digital transfer. | Counts as a repeat of Film 203 w/same topic. Prereq: none. When over-enrolled, preference will be given to Pre-Film or Pre-InterArts/IAT students.

150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences. | Cultures and Communities Prog course; req'd service learning component. Jointly offered with & counts as repeat of Art 150. Prereq: none.

201 (101) Introduction to Experimental Media Arts. 3 cr. U. Survey of independent media art production in film, video, photography and emerging media from the artist's point of view. Lectures, screenings, and workshops exploring ideas and techniques relevant to the making of personal statements. | Prereq: none.

202 (102) Current Topics in Media Arts Production: 3 cr. U. Lectures, screening, discussions, and workshops in media arts production from the artist's point of view. Development of ideas/proposals for possible production in subsequent film department courses. | May be retaken with change in topic to max of 9 cr. Prereq: none.

203 Media Workshop: (Subtitled). 3 cr. U. Lab tutorial consisting of intermedia exercises and class projects. Specific credits announced in Schedule of Classes whenever course is offered. | May be retaken with change in content to 9 cr max. Prereq: none.

210 Concepts of Production in the Media Arts. 3 cr. U. Introduction to the basic elements of cinema and related media in an inter-arts context through the development of critical and practical skills. | Prereq: none.
<table>
<thead>
<tr>
<th>Course Number</th>
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<th>Credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>220</td>
<td>Basic Elements of Filmmaking</td>
<td>3 cr.</td>
<td>U. Pre-portfolio studio in 16mm film production. [Prereq: Film 116(P), Film 117(P) &amp; either 114(214)(P) or 210(P); or cons instr.]</td>
</tr>
<tr>
<td>221</td>
<td>Basic Elements of Filmmaking II</td>
<td>6 cr.</td>
<td>U. Theory and practice of 16mm non-sync sound techniques. Emphasis on project development, cinematography, editing, sound recording, audio transfers and mixing. [Prereq: grade B or above in Film 220; or cons instr.]</td>
</tr>
<tr>
<td>222</td>
<td>Introduction to Digital Filmmaking</td>
<td>3 cr.</td>
<td>U. Pre-portfolio studio in digital filmmaking and editing techniques. [Prereq: admis to Pre-Film/Film prog &amp; Film 116(P), 117(P); &amp; either 114(214)(P) or 210(P); or admis to Inter-Arts/IAT prog &amp; Film 116(P) or 117(P); Art 118(P) &amp; Music 220(P); or cons instr.]</td>
</tr>
<tr>
<td>223</td>
<td>Animation I.</td>
<td>3 cr.</td>
<td>U. Introduction to single-frame cinematic principles and techniques including drawing, collage, and kinetic analysis for short animated film projects. [Prereq: none.]</td>
</tr>
<tr>
<td>224</td>
<td>Introduction to the Screenplay</td>
<td>3 cr.</td>
<td>U. Approaches to screenwriting from both artistic and professional points of view from the cultivation of an idea to the realization of a scenario. [Prereq: none.]</td>
</tr>
<tr>
<td>250</td>
<td>Internship/Professional Practice</td>
<td>3 cr.</td>
<td>U. This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series. May be retaken to max of 6 cr. [Prereq: cons instr.]</td>
</tr>
<tr>
<td>251</td>
<td>Theory/Practice Workshop: (Subtitled)</td>
<td>3-4 cr.</td>
<td>U. Development of techniques for projects in the theory and practice of media arts. May be retaken with change in content to 9 cr max. [Prereq: none.]</td>
</tr>
<tr>
<td>252</td>
<td>Introduction to Photography</td>
<td>3 cr.</td>
<td>U. Fundamental aesthetics and techniques of black &amp; white photography concentrating on 35mm camera operation, film exposure and darkroom practice. Jointly offered with &amp; counts as repeat of Art 253(251). [Prereq: Film 116(P) &amp; 117(P) &amp; either 114(214)(P) or 210(P); or Art 101(P), 106(P) &amp; 108(P); Math 103(106)(C), 105(C), or Math Place Code 30 (GER Quant Lit Part A req); or cons instr.]</td>
</tr>
<tr>
<td>253</td>
<td>Introduction to Digital Arts</td>
<td>3 cr.</td>
<td>U. Pre-portfolio studio in digital art practices. [Prereq: admis to Pre-Film/Film prog &amp; Film 116(P), 117(P); &amp; either 114(214)(P) or 210(P); or admis to Inter-Arts/IAT prog &amp; Art 118(P) &amp; Music 220(P); or cons instr.]</td>
</tr>
<tr>
<td>259</td>
<td>Photography Workshop: (Subtitled)</td>
<td>1-3 cr.</td>
<td>U. A short term, special topic course in photography. Jointly offered with &amp; counts as repeat of Art 259. Retakable with topic change to 6 cr max. [Prereq: admis to Art and Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.]</td>
</tr>
<tr>
<td>297</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>U. Production and special problems designed to provide relevant course work for a study abroad program in the media arts. May be retaken with change in topic to max of 12 cr. [Prereq: acceptance in Study Abroad Prog.]</td>
</tr>
<tr>
<td>299</td>
<td>Independent Study</td>
<td>1-6 cr.</td>
<td>U. Individual program of supervised study in media arts theory &amp; practice. May be retaken for cr. [Prereq: cons instr.]</td>
</tr>
<tr>
<td>301</td>
<td>Conversations with Filmmakers and Critics</td>
<td>3 cr.</td>
<td>U. Lectures, screenings, and discussions by contemporary filmmakers and critics. Subjects of presentation will include the contemporary state of the art, the condition of the industry, and the relations of film to a critique of the culture. [Prereq: none.]</td>
</tr>
<tr>
<td>302</td>
<td>Video in the Classroom</td>
<td>3 cr.</td>
<td>U. Introduction to creative and technical processes of video making. Planning and production of topical video projects with small team of K-12 students and teacher. May be retaken to max of 6 cr. [Prereq: none.]</td>
</tr>
</tbody>
</table>
| 305           | Digital Cinema and the Computer                   | 3 cr.   | U. Relation of digital cinema to the cultural, philosophical, and technical...

309 Theory & Practice of Media Literacy. 3 cr. U. Explores the relationship between image, sound and text in light of an expanded sense of 'writing,' 'image-making,' and 'critique' in the digital age. Prereq: none.

314 Topics in Conceptual Studies: (Subtitled). 3 cr. U. Consideration of issues in critical studies including ethnographic film, found-footage filmmaking, experimental documentary or surrealist film. Retakable with change of topic to 9 cr max. Prereq: Film 114(214)(P) or 210(P); or cons instr.

316 Filmmaker as Theorist/Practitioner: (Subtitled). 3 cr. U. Examines filmmakers particularly engaged in theory/practice investigations of film form including Chantal Ackerman, Jean-Luc Godard, Sergei Eisenstein, Laura Mulvey & Trinh T. Minh-ha. Retakable with change of topic to 9 cr max. Prereq: Film 114(214)(P) or 210(P); or cons instr.

318 Film and the Visual and Performing Arts: (Subtitled). 3 cr. U. Consideration of film's relationship to a specific art form, its formal similarities and historical intersections including film & painting, film & dance, film & music. Retakable with change of topic to 9 cr max. Prereq: Film 114(214)(P) or 210(P); or cons instr.

319 Film Genres: (Subtitled). 3 cr. U. Formal investigation of what comprises a film genre across both national & international contexts. Critical writing & production assignments will foreground conventions & their transformations in film history. Retakable with change of topic to 9 cr max. Prereq: Film 114(214)(P) or 210(P); or cons instr.

320 Structures of Film. 3 cr. U. Advanced examination of structural dimensions in film, including space, time, causality, image, and sound. Practical techniques explore structural possibilities for creative expression in film. Prereq: Film 114(214)(P) & 210(P); or cons instr.

341 (241) Theory/Practice Seminar: (Subtitled). 3-4 cr. U. Theoretical/practical approaches to film and video production. May be retaken with change in topic to max of 9 cr. Prereq: admis to upper-level film classes per portfolio review, or cons instr.

350 Color Photography. 3 cr. U. Aesthetic and technical challenges of color photography, concentrating on camera operation, film exposure and digital darkroom practice. Jointly offered with & counts as repeat of Art 350. Prereq: grade B- or better in Film 253(P) or Art 253(251)(P), & admis to Pre-Film/Film prog or Art and Design prog or Inter-Arts/IAT prog; or cons instr.

352 Photographic Materials and Processes. 3 cr. U. Exploration of experimental methods and aesthetics from camera to print. Jointly offered with & counts as repeat of Art 352(252). Prereq: grade of B- or better in Film 253(P) or Art 253(251)(P), & admis to Pre-Film/Film prog or Art and Design prog or Inter-Arts/IAT prog; or cons instr.

380 Media Arts Module: (Subtitled). 3 cr. U. Post-portfolio course introducing specialized production skills in film, video, audio or new genres. May be retaken with change in topic to max of 12 cr. Prereq: admis to upper level course per portfolio review or cons instr. In case of over-enrollment, admission based on gpa in major.

399 Advanced Independent Study. 1-6 cr. U. Individual program of supervised study for the advanced student of film and/or video. May be retaken for cr. Prereq: admis to upper-level film classes per portfolio review & cons instr.

410 Junior Project. 6 cr. U. Individual production projects in film or video facilitated by critiques and technical demonstrations tailored to student needs. Prereq: admis to upper level course per portfolio review or cons instr. In case of over-enrollment, admission based on grade point average in major.

420 Intermediate Media Arts Module: (Subtitled). 3 cr. U/G. Intermediate level course in specialized production skills in film, video, audio or new genres. May be retaken with change in topic to max of 12 cr. Prereq: admis to upper level course per portfolio review; jr st or cons instr. In case of over-enrollment, admission based on gpa in major.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Restrictions</th>
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</thead>
<tbody>
<tr>
<td>434</td>
<td>Film Aesthetics: (Subtitled)</td>
<td>3 cr.</td>
<td>U. Consideration of a particular aesthetic aspect of film including performance, sound, decor, frame/sequence, color, narrative &amp; narration, temporality. Retakable with change of topic to 9 cr max. Prereq: jr st., Film 210(P); or const instr.</td>
</tr>
<tr>
<td>450</td>
<td>Advanced Internship/Professional Practice</td>
<td>1-6 cr.</td>
<td>U/G. This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series. May be retaken to max of 9 cr. Prereq: admis to upper-level Film classes per portfolio review, cons instr.</td>
</tr>
<tr>
<td>451</td>
<td>Special Topics in Photography: (Subtitled)</td>
<td>3 cr.</td>
<td>U. Specific topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered. Jointly offered with &amp; counts as repeat of Art 451(351). Retakable with change in topic to 6 cr max. Prereq: grade of B- or better in Film 350(P) &amp; 352(P) or Art 350(P) &amp; 352(252)(P); or cons instr.</td>
</tr>
<tr>
<td>454</td>
<td>Narrative Photography</td>
<td>3 cr.</td>
<td>U. Investigation of narrative strategies as they relate to contemporary photography and its history. Jointly offered with &amp; counts as repeat of Art 454. Prereq: grade of B- or better in Film 350(P) &amp; 352(P) or Art 350(P) &amp; 352(252)(P); or cons instr.</td>
</tr>
<tr>
<td>456</td>
<td>Digital Imaging in Photography</td>
<td>3 cr.</td>
<td>U/G. Exploration of critical concepts through digital image processing and manipulation, including color correction, retouching, compositing, scanning and output. Jointly offered with &amp; counts as repeat of Art 456(455). Prereq: jr st; grade of B- or better in Film 350(P) &amp; 352(P) or Art 350(P) &amp; 352(252)(P); or grad st; or cons instr.</td>
</tr>
<tr>
<td>457</td>
<td>Photographic Techniques</td>
<td>3 cr.</td>
<td>U. Study of fine print production including image scale, contrast control, photographic developers, papers and surfaces. Jointly offered with &amp; counts as repeat of Art 457(353). Prereq: grade of B- or better in Film 350(P) &amp; 352(P) or Art 350(P) &amp; 352(252)(P); or cons instr.</td>
</tr>
<tr>
<td>459</td>
<td>Photography Workshop: (Subtitled)</td>
<td>1-3 cr.</td>
<td>U/G. A special topic course in photography. Jointly offered with &amp; counts as repeat of Art 459. Retakable with change in topic to 6 cr max. Prereq: jr st; admis to Film prog or Art &amp; Design prog or Inter-Arts/IAT prog; or grad st; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.</td>
</tr>
<tr>
<td>460</td>
<td>Advanced Media Arts Module: (Subtitled)</td>
<td>3 cr.</td>
<td>U/G. Advanced-level course in specialized production skills in film, video, audio or new genres. May be retaken with change of topic to max of 9 cr. Prereq: admis to upper level course per portfolio review; jr st or cons instr. In case of over-enrollment, admission based on gpa in major.</td>
</tr>
<tr>
<td>470</td>
<td>Advanced Media Arts Workshop: (Subtitled)</td>
<td>1-6 cr.</td>
<td>U/G. Individual student projects exploring portable and studio media arts production techniques. Students will submit production proposals for faculty approval. Retakable with change of topic to 6 cr max. Prereq: Film 389(P); or grad st; or cons instr.</td>
</tr>
<tr>
<td>497</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>U. Production and special problems designed to provide relevant course work for a study abroad program in the media arts. May be retaken with change in topic to max of 12 cr. Prereq: admis to upper-level Film classes per portfolio review, or cons instr.</td>
</tr>
<tr>
<td>509</td>
<td>Senior Project I</td>
<td>3 cr.</td>
<td>U. Pre-production/production of individual media arts projects facilitated by critiques and work sessions. Prereq: admis to upper level course per portfolio review, min 12 cr of upper-level film/video/new genres</td>
</tr>
</tbody>
</table>
electives, or cons instr. In case of over-enrollment, admission based on gpa in major.

**510 Senior Project II. 6 cr. U.** Continuation of capstone project started in Film 509. Emphasis on production and post-production, facilitated by critiques, work sessions and preparations for a public presentation. Prereq: Film 509(P) or cons instr. In case of over-enrollment, admission based on gpa in major.

**512 Senior Project in Conceptual Studies. 6 cr. U.** Capstone seminar investigates and interrogates relationship between filmmaking, theory and history. Archival research and critical analysis will produce final multimedia project. Prereq: Film 320(P), 455(P).

**552 Studio Practice and Research in Photography. 3 cr. U/G.** Research and development of a body of photographic work. Jointly offered with & counts as a repeat of Art 552. Prereq: jr st; grade of B- or better in Film 454(P), 456(P) & 457(353)(P) or Art 454(P), 456(455)(P) & 457(353)(P); or grad st; or cons instr.

**553 Senior Project in Photography. 3 cr. U.** Further development of studio investigations leading to a final project for BFA Exhibition. Jointly offered with & counts as a repeat of Art 553. Prereq: sr st; grade of B- or better in Film 552(P) or Art 552(P); or grad st; or cons instr.

*This course information produced at 01:00 on 07/30/2015.*
111 Entertainment Arts: Film, Television, and the Internet. 3 cr. U. History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form. ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

205 History of Film I: Development of an Art. 3 cr. U. The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists. ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another. Prereq: none.

206 History of Film II: Development of an Art. 3 cr. U. The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists. ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another. Prereq: none.

212 Intermediate Topics in Film Studies: (Subtitled). 3 cr. U. Stylistic, generic, historical, or theoretical issues in film studies. Retakable w/chg in topic to 9 cr max. Prereq: soph st or English 290(P).

286 Writing about Film and Television. 3 cr. U. Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives. English 286 & FilmStd 286 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

290 Introduction to Film Studies. 3 cr. U. Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking. English 290 & FilmStd 290 are jointly offered; they count as repeats of one another. Prereq: none.

291 Introduction to Television Studies. 3 cr. U. The forms, images, and narratives particular to television. English 291 & FilmStd 291 are jointly offered; they count as repeats of one another. Prereq: none.

292 Classic Dramas in Film: (Subtitled). 1 cr. U. A sampling of great plays in film versions, with performances by acclaimed actors. Offered on a cr/no cr basis. Retakable w/chg in topic to 3 cr max. English 292 & FilmStd 292 are
293 Literature and Media: (Subtitled). 3 cr. U. A study of novels, essays, magazines, newspapers, advertisements, and films in order to disclose similarities and differences in their use of rhetorical strategies. Retakable w/chg in topic to 9 cr max. English 293 & FilmStd 293 are jointly offered; w/same topic, they count as repeats of one another. Prereq: soph st.

295 Women and Film. 3 cr. U. A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture. English 295 & FilmStd 295 are jointly offered; they count as repeats of one another. Prereq: soph st.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework. Retakable w/change in topic. Prereq: acceptance for Study Abroad Program.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none, except as required for specific topic.

305 Film Analysis I: Method and Theory. 3 cr. U/G. Film language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists. ArtHist 305 & FilmStd 305 are jointly offered; they count as repeats of one another. Prereq: jr st.

306 Film Analysis II: Method and Theory. 3 cr. U/G. Film language, critical methods, and theory applied to selected works of major national film artists. Cross-cultural analysis of styles and themes. ArtHist 306 & FilmStd 306 are jointly offered; they count as repeats of one another. Prereq: jr st.

307 Film Directors: (Subtitled). 3 cr. U/G. Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another. Prereq: jr st; ArtHist 205(R) or 305(R).

308 Film Styles: (Subtitled). 3 cr. U/G. A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios. Retakable w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another. Prereq: jr st.

312 Topics in Film Studies: (Subtitled). 3 cr. U. Study of stylistic, generic, historical, or theoretical issues in film studies. Retakable w/chg in topic to 9 cr max. English 312 & FilmStd 312 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P).

316 World Cinema: (Subtitled). 3 cr. U. National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms. Retakable w/chg in topic to 9 cr max. English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

320 Studies in Film Authorship: (Subtitled). 3 cr. U. The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star. Retakable w/chg in topic to 9 cr max. English 320 & FilmStd 320 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

329 Film and Literature. 3 cr. U/G. Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode. English 329 & FilmStd 329 are jointly offered; they count as repeats of one another. Prereq: jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.
330 Film and Drama: (Subtitled). 3 cr. U. Capabilities and limitations of narrative film and drama, emphasizing the distinctiveness of each artistic mode. Retakable w/chg in topic to 9 cr max. English 330 & FilmStd 330 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

350 Global Jewish Film and Television: (Subtitled). 3 cr. U. Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism. FilmStd 350 & Jewish 350 are jointly offered; with the same subtitle, they count as repeats of one another. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

380 Media and Society: (Subtitled). 3 cr. U/G. An examination of film and/or television, with attention to the representation of class, gender, race, and nation. Subtitles vary. English 380 & FilmStd 380 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; English 290(P) or 291(P) or 6 cr in courses approved for hum breadth cr.

383 Cinema and Genre: (Subtitled). 3 cr. U/G. Stylistic and thematic analyses of literary and film genres (e.g., melodrama, film noir). Consideration of writers, directors, producers and stars whose works represent forms of a genre. English 383 & FilmStd 383 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 6 cr in courses approved for hum breadth cr.

390 Classical Film Criticism and Theory. 3 cr. U/G. Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing. English 390 & FilmStd 390 are jointly offered; they count as repeats of one another. Prereq: jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.

391 Television Criticism and Theory. 3 cr. U/G. Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts. English 391 & FilmStd 391 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.

392 Contemporary Film Criticism and Theory: (Subtitled). 3 cr. U/G. Current issues in film criticism and theory and an exploration of critical perspectives (psychoanalysis, feminism, structuralism, post-structuralism) informing recent debates in film studies. English 392 & FilmStd 392 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.

394 Theories of Mass Culture: (Subtitled). 3 cr. U/G. A survey of theories of mass culture relative to film from the late 19th century to the present. English 394 & FilmStd 394 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 290(P) or 291(P) or cons instr.

395 Feminist Film Criticism and Theory: (Subtitled). 3 cr. U/G. Theories of representation and spectatorship that focus on the position of women in film, television, and/or video. English 395 & FilmStd 395 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; English 295(P) or cons instr.

412 Global Cinemas - Cinematic Practices in the Context of Globalization: (Subtitled). 3 cr. U/G. Cinema within global transformations that reshape the way we think about film and its history; cinema's changing impact beyond national borders. English 412 & FilmStd 412 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st or English 290(P); satisfaction of GER English Composition competency req.

489 Internship in Film Studies, Upper Division. 1-6 cr. U. Application of advanced principles of film studies in a business, organizational, educational, political, or other appropriate setting. One cr earned for 40 hrs work. Retakable to
6 cr max. Prereq: jr st; 300-level or above course in FilmStd; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specific enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.


690 (590) Seminar in Contemporary Film Theory. 3 cr. U. Contemporary theories and criticism of cinema, from 1960 to the present. Theoretical approaches considered may include structuralism, semiotics, psychoanalysis, cultural studies, feminism, post-structuralism, queer theory. Prereq: sr st; English 390(P).

699 Independent Work. 1-3 cr. U. Advanced independent work under the supervision of a Film Studies faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Film Studies dir or asst dir. Retakable w/chg in topic. Prereq: jr st; 2.5 gpa & writ cons instr, dept chair, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
299 Independent Study. 1-6 cr. U. Individual program of supervised study in field of fine arts. May be retaken for cr. Prereq: cons instr.

311 Spatial Interactivity I. 3 cr. U/G. Introduction to the creation of interactive spatial installation and sculptural works. Students work with sensors, video, audio and kinetic elements to create interactive systems. Prereq: jr st, admis to IAT Prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.

313 Programming for Artists I. 3 cr. U/G. An introduction to principles and applications of computer programming languages within art practice. FineArt 313 & Art 313 are jointly offered; they count as repeats of one another. Prereq: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.

315 Scripted Interactivity I. 3 cr. U/G. An introduction to the production and evaluation of screen based interactivity. Techniques can include Flash Action Scripting, Lingo, Javascript, DHTML, etc. Prereq: jr st, admis to IAT prog or to Visual Art prog, & Art 118(P); or grad st; or cons instr.

316 (211) Interactive and Multimedia Art. 3 cr. U/G. An introduction to interactive art objects and installations using computer vision, signal processing, and/or MIDI and USB technologies. Art 316 & FineArt 316(211) are jointly offered; they count as repeats of one another. Prereq: jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.

319 Hybrid Sculptural Forms: (Subtitled). 3 cr. U. Introduction to concrete computing for artists, including robotics, interactive systems; basic programming, and soldering/assembly. Emphasis on production of object oriented art. Retakable w/chg in topic to 6 cr max. Art 319 & FineArt 319 are jointly offered & count as repeats of each other. Prereq: Admis to Art and Design prog or Inter-Arts/IAT prog, & Art 118(P); or cons instr.

327 (351) Digital Media Workshop: (Subtitled). 3 cr. U. A concept oriented workshop in digital media. Art 327 & FineArt 327(351) are jointly offered & count as repeats of each other. May be retaken w/chg in topic change to 6 cr max. Prereq: soph st, admis to Visual Art prog or Inter-Arts/IAT prog; or cons instr. See semester course schedule for additional prereq.

353 Digital Media Seminar: 3 cr. U. Topics and critical issues centering on science and technology within the field of contemporary art. Student research and written/oral reports required. May be retaken with change in topic to 6 cr max. Prereq: jr st, & admis to Inter-Arts/IAT prog or to Visual Art prog; or cons instr.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
<th>Prerequisites</th>
<th>Retake Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>399</td>
<td>Independent Study</td>
<td>1-6</td>
<td>U</td>
<td>Individual program of supervised study in field of fine arts. May be retaken for cr. Prereq: cons instr.</td>
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<tr>
<td>407</td>
<td>DIVAS Forum</td>
<td>1-3</td>
<td>U</td>
<td>Explore contemporary issues in art &amp; technology, engage in peer critique, view and evaluate exhibitions, performances and presentations. May be retaken to max 6 cr. Prereq: current Pre-DIVAS or DIVAS st; or cons instr.</td>
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<tr>
<td>410</td>
<td>IAT Junior Project</td>
<td>6</td>
<td>U</td>
<td>Individual production projects in IAT facilitated by critiques and technical demonstrations tailored to student needs. Prereq: jr st; successful completion of IAT portfolio review; or cons instr.</td>
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<tr>
<td>411</td>
<td>Time Space II</td>
<td>3</td>
<td>U/G</td>
<td>Advanced temporal and spatial structures as applied to art practice. Prereq: jr st, Fine Art 211(P); or grad st; or cons instr.</td>
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<tr>
<td>450</td>
<td>Electronic Portfolio and Assessment in Arts Education</td>
<td>1</td>
<td>U</td>
<td>Presentation software, interactive multimedia, and Internet for creation of electronic portfolios for assessing proficiency in arts education. Exploration of assessment tools available to arts educators. Prereq: admis to teacher cert. prog.</td>
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<tr>
<td>489</td>
<td>Fine Arts Workshop I (Subtitled)</td>
<td>1-6</td>
<td>U/G</td>
<td>Project-oriented course of variable content and duration, focusing around special aspects of art, dance, film, music and theatre. An interdisciplinary approach will be used. May be repeated with change in topic to max of 9 cr. Prereq: jr st; cons instr.</td>
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<tr>
<td>510</td>
<td>IAT Senior Project</td>
<td>6</td>
<td>U</td>
<td>Individual projects in IAT facilitated by critiques, work sessions, technical demonstrations tailored to student needs and preparation for public presentation or exhibition. Prereq: Fine Art 410 &amp; Sr st; successful completion of IAT portfolio review; or cons instr.</td>
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<tr>
<td>511</td>
<td>Spatial Interactivity II</td>
<td>3</td>
<td>U/G</td>
<td>Advanced course focusing on interactive spatial installation and sculptural works. Work with sensors, video, audio and kinetic elements to create interactive systems. Prereq: jr st, admis to IAT prog or to Visual Art prog, &amp; Fine Art 311(P); or grad st; or cons instr.</td>
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<tr>
<td>513</td>
<td>Programming for Artists II</td>
<td>3</td>
<td>U/G</td>
<td>Advanced principles and applications of computer programming languages within art practice. Prereq: Jr st, Fine Art 313(P); or grad st; or cons instr.</td>
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<td>515</td>
<td>Scripted Interactivity II</td>
<td>3</td>
<td>U/G</td>
<td>Advanced course focusing on the production and evaluation of screen based interactivity. Techniques can include Flash Action Scripting, Lingo, Javascript, DHTML, etc. Prereq: jr st, admis to IAT prog or to Visual Art prog, &amp; Fine Art 315(P); or grad st; or cons instr.</td>
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<td>551</td>
<td>Advanced Digital Media Workshop</td>
<td>3</td>
<td>U/G</td>
<td>A short-term, concept oriented workshop in digital media. May be retaken with change in topic to 6 cr max. Prereq: jr st, Fine Art 351(P); or grad st; or cons instr.</td>
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<tr>
<td>553</td>
<td>Advanced Digital Media Seminar</td>
<td>3</td>
<td>U/G</td>
<td>Topics and critical issues centering on science and technology within the field of contemporary art. Student research and written/oral reports required. May be retaken with change in topic to 6 cr max. Prereq: jr st, &amp; admis to IAT prog or to Visual Art prog; or grad st; or cons instr.</td>
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<tr>
<td>589</td>
<td>Fine Arts Workshop II (Subtitled)</td>
<td>1-6</td>
<td>U/G</td>
<td>Advanced project-oriented course, of variable content and duration, focusing around special aspects of art, dance, film, music and theatre. An interdisciplinary approach will be used. May be repeated with change in topic to max of 9 cr. Prereq: jr st; writ cons instr.</td>
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<tr>
<td>599</td>
<td>Arts Internship</td>
<td>1-6</td>
<td>U/G</td>
<td>Internships in the arts at museums and galleries; dance, theatre, and production companies; design and advertising firms; government agencies; non-profit organizations; professional artist studios. May be retaken to max of 9 cr. Prereq: jr st; cons instr.</td>
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<tr>
<td>689</td>
<td>Senior Capstone-Musical Theatre</td>
<td>3</td>
<td>U</td>
<td>A faculty-supervised staged performance conceived and directed by the enrollee which is a result of their training in the BFA InterArts Musical Theatre degree program. Prereq: jr st, cons instr.</td>
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</table>
instr & hearing before area faculty.
101 How to Learn a Language. 1 cr. U. This course provides language students with learning tools that are helpful for articulatory phonetics, morphology, grammatical inflections, word derivations, and explanations of unfamiliar grammatical constructions. Prereq: none.

102 (Linguis 133) Uncommonly Taught Language: Intensive First Semester: (Subtitled). 5-7 cr. U. Intensive training in an uncommonly taught language, for students with no previous knowledge of the language. Retakable w/chg of language. FLL 102 & Linguis 102 are jointly offered; w/same topic, they count as repeats of one another. Prereq: none.

103 (Linguis 131) First Semester of an Uncommonly-Taught Language: (Subtitled). 1-4 cr. U. Elementary training in an uncommonly-taught language (i.e. one not otherwise offered in any UWM program). Number of credits earned by the student is determined by the credit value assigned to section number. For students with no previous knowledge of the language. Retakable w/chg in language. FLL 103 & Linguis 103 are jointly offered; with same topic, they count as repeats of one another. Prereq: none.

104 (Linguis 132) Second Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 103 (Linguis 131). Number of credits earned by student is determined by the credit value assigned to section number. Retakable w/chg in language. FLL 104 & Linguis 104 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 103(Linguis 131)(P) in same language.


106 Intensive Elementary Language II: 4 cr. U. Continuation of FLL 105. A five-week intensive course offered as the second of three modules in a semester-long intensive program. Retakable w/chg in topic. Prereq: FLL 105(C) or equiv; conc reg in FLL 216.


110 (Linguis 164) Second-Semester Lao Literacy. 3 cr. U. Continuation of FLL 109 (Linguis 163). Prereq: FLL 109
<table>
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<tr>
<th>Course</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td><strong>192 First Year Seminar</strong></td>
<td>3 cr.</td>
<td>U</td>
<td>Specific topics announced in the Schedule of Classes each time course is offered. Open only to freshman. Students may earn cr in just one L&amp;S First-Year Sem (course numbers 192, 193, 194). Prereq: none.</td>
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</tr>
<tr>
<td><strong>199 Independent Study</strong></td>
<td>1-3 cr.</td>
<td>U</td>
<td>Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.50 gpa; writ cons instr, dept chair, &amp; assoc dean for SAS.</td>
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</tr>
<tr>
<td><strong>202 (Linguis 233) Uncommonly Taught Language: Intensive Second Semester</strong></td>
<td>5-7 cr.</td>
<td>U</td>
<td>Continuation of FLL/Linguis 102(Linguis 133). Retakable w/chg in language. FLL 202 &amp; Linguis 202 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 102(Linguis 133)(P) in same language.</td>
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<tr>
<td><strong>203 (Linguis 231) Third Semester of an Uncommonly Taught Language</strong></td>
<td>3-4 cr.</td>
<td>U</td>
<td>Continuation of FLL/Linguis 104(Linguis 132). Number of credits earned by student is determined by credit value assigned to section number. Retakable w/chg in language. FLL 203 &amp; Linguis 203 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 104(Linguis 132)(P) in the same language.</td>
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<tr>
<td><strong>204 (Linguis 232) Fourth Semester of an Uncommonly Taught Language</strong></td>
<td>3-4 cr.</td>
<td>U</td>
<td>Continuation of FLL/Linguis 203(Linguis 231). Number of credits earned by student is determined by the credit value assigned to section number. Retakable w/chg in language. FLL 204 &amp; Linguis 204 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 203(Linguis 231)(P) in same language.</td>
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<tr>
<td><strong>205 Intensive Intermediate Language I</strong></td>
<td>3 cr.</td>
<td>U</td>
<td>Completion of methodical study of elements of the designated language; emphasis on intensive review of/practice with vocabulary, morphology, syntax. Third five-week module in semester-long intensive program. Retakable w/chg in topic. Prereq: FLL 106(C) or equiv; conc reg in FLL 216.</td>
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<tr>
<td><strong>216 Survey of Civilization</strong></td>
<td>3 cr.</td>
<td>U</td>
<td>Survey of the civilization of the designated language from geographical, historical, and cultural perspectives; emphasis on reading in the language simple and intermediate texts that illustrate aspects of the civilization. Retakable w/chg in topic. Prereq: conc reg in FLL 105, 106, &amp; 205.</td>
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<tr>
<td><strong>299 Ad Hoc</strong></td>
<td>1-6 cr.</td>
<td>U</td>
<td>Course created especially for offering in a specified enrollment period. Requires only dept and Assoc Dean approval. In exceptional circumstances can be offered in one add'l semester. Retakable w/chg in topic. Prereq: none, except as required for specific topic.</td>
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<tr>
<td><strong>303 (Linguis 331) Fifth Semester of an Uncommonly Taught Language</strong></td>
<td>3-4 cr.</td>
<td>U</td>
<td>Continuation of FLL/Linguis 204(Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number. Retakable w/chg in language. FLL 303 &amp; Linguis 303 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 204(Linguis 232)(P) in same language.</td>
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<tr>
<td><strong>304 (Linguis 332) Sixth Semester of an Uncommonly Taught Language</strong></td>
<td>3 cr.</td>
<td>U</td>
<td>Continuation of FLL/Linguis 303(Linguis 331). Number of credits earned by student is determined by the credit value assigned to section number. Retakable w/chg in language. FLL 304 &amp; Linguis 304 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 303(Linguis 331)(P) in same language.</td>
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<tr>
<td><strong>499 Ad Hoc</strong></td>
<td>1-6 cr.</td>
<td>U</td>
<td>Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.</td>
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</table>
699 Advanced Independent Study. 1-3 cr. U. Advanced-level independent work under the supervision of a Foreign Languages and Literature faculty or academic staff member. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
103 First-Semester French. 4 cr. U. For students who have not studied French previously. Oral practice, grammar, and reading. Language laboratory required. Counts as repeat of French 113. Open only to students with 2 yrs HS French or less or score of 1 on the French placement exam. Prereq: none.

104 Second-Semester French. 4 cr. U. Continuation of French 103. Further drill in the language laboratory. Counts as repeat of French 114. Prereq: grade of C or better in French 103(P) or level 2 score on French placement exam or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

110 (201) French for Travelers. 1 or 2 cr. U. Basic conversational French for travelers. For students with no knowledge of French as well as for those with a basic foundation in the language. Useful vocabulary and cultural information. Prereq: none.

113 Intensive French I. 4 cr. U. Compressed introductory course focused on speaking, oral comprehension, and reading. For students with some knowledge of French or another foreign language. Counts as a repeat of French 103. Prereq: none.


145 Views of France: (Subtitled). 3 cr. U. In-depth study of selected aspects of French civilization as reflected in literature. Retakable w/chg in topic to 9 cr max. Prereq: none.

190 Elementary French Electives. 3-12 cr. U. Awarded by the program director for language work at the introductory (first-year) level completed in Paris. Not retakable. Prereq: acceptance in Study Abroad Prog.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in
<table>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>199</td>
<td>Independent Study</td>
<td>1-4 cr</td>
<td>For further information consult department chair. Not retakable. Prereq: 2.5 GPA, cons instr, dept chair, &amp; assoc dean for SAS.</td>
</tr>
<tr>
<td>203</td>
<td>Third-Semester French</td>
<td>3 cr</td>
<td>Review and further study of language and culture with emphasis on the development of reading skills. Prereq: grade of C or better in French 104(P) or 114(P) or level 3 score on French placement exam or cons instr. Generates L&amp;S credit for demonstrated equivalent preparation (8 retro cr).</td>
</tr>
<tr>
<td>204</td>
<td>Fourth-Semester French</td>
<td>3 cr</td>
<td>Continuation of French 203. Review of main grammatical concepts. Readings in modern French and Francophone literature. Prereq: grade of C or better in French 203(P) or level 4 score on French placement exam or cons instr; French 213(R). Generates L&amp;S credit for demonstrated equivalent preparation (11 retro cr).</td>
</tr>
<tr>
<td>205</td>
<td>Reading for Research</td>
<td>3 cr</td>
<td>Basic grammatical principles and linguistic structures, augmented by individually-supervised readings in the student's field of specialization. Prereq: none.</td>
</tr>
<tr>
<td>210</td>
<td>French Immersion: Intermediate</td>
<td>1-2 cr</td>
<td>Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered. Retakable to 4 cr max. Prereq: French 203(P) or cons instr.</td>
</tr>
<tr>
<td>213</td>
<td>Grammar for Students of Foreign Languages</td>
<td>3 cr</td>
<td>An introduction to the grammatical concepts useful in studying foreign languages. Jointly offered with, and may be used to repeat, Classic 213, English 213, German 213, Italian 213, Linguistics 213, Polish 213, Russian 213, &amp; Spanish 213. Prereq: none.</td>
</tr>
<tr>
<td>277</td>
<td>French Discussion Section</td>
<td>1 or 2 cr</td>
<td>Discussion in French, designed to broaden perspectives, improve language skills. Offered in conjunction with courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max. Prereq: French 204(P) or cons instr.</td>
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<tr>
<td>289</td>
<td>Internship in French</td>
<td>1-6 cr</td>
<td>Application of basic principles of French in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: French 103(P) or 113(P); 2.25 GPA; cons instr.</td>
</tr>
<tr>
<td>290</td>
<td>Intermediate French Electives: (Subtitled)</td>
<td>3-12 cr</td>
<td>Awarded by the program director for language work on the intermediate level completed at Paris. Students initially enroll in French 595. Retakable. Prereq: acceptance for Study Abroad Prog; conc reg in French 595(C).</td>
</tr>
<tr>
<td>296</td>
<td>UROP Apprenticeship</td>
<td>1-3 cr</td>
<td>Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max. Prereq: acceptance into UROP; prior or conc reg in UROP seminar.</td>
</tr>
<tr>
<td>297</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr</td>
<td>Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog; conc reg in French 595(C).</td>
</tr>
<tr>
<td>299</td>
<td>Ad Hoc: (Subtitled)</td>
<td>1-6 cr</td>
<td>Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prerequisites may be assigned to specific topic. Retakable w/chg in topic. Prereq: none; add'l prerequisites may be assigned to specific topic.</td>
</tr>
<tr>
<td>303</td>
<td>(215) Conversation and Composition: Intermediate Level</td>
<td>3 cr</td>
<td>Development of ability to understand, read, speak and write French, with emphasis on everyday language and culture. Prereq: grade C or better in French 204(P) or level 5 score on French placement exam or cons instr; may be taken conc w/French 204 w/grade B or better in French.</td>
</tr>
</tbody>
</table>
203(P). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).


314 Contemporary French Language and Culture. 3 cr. U. Introduction to contemporary French culture through the use of authentic materials (video, oral interviews, literary and journalistic writing).|Prereq: French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

325 Intensive Grammar and Usage. 3 cr. U. Grammatical structures; levels of styles; written accuracy and proficiency.|Prereq: French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

322 (322) Approaches to Poetry and Fiction. 3 cr. U. Rules and concepts involved in reading and understanding poetry and prose. Practice in developing skills by literary analysis.|Prereq: French 303(215)(P) or cons instr; French 324(327) & 325(R).

349 Studies in French Culture: (Subtitled). 2-4 cr. U. A specific aspect of French culture combining class lectures and on-site visits.|May not enroll conc in French 449. Retakable w/chg in topic to 9 cr max. Prereq: French 303(215)(P) or cons instr; acceptance for Study Abroad Prog; conc reg in French 595(C).

357 Literature of the French-Speaking World in Translation: (Subtitled). 3 cr. U. Topic/genre in selected works by major writers from one or more French-speaking regions (France, Belgium, Switzerland, Quebec, the Caribbean, Africa, Southeast Asia, etc.).|Retakable w/chg in topic to 6 cr max. Prereq: jr st or cons instr.


383 Honors Seminar: (Subtitled). 3H cr. U. Reading and discussion of selected works.|Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

392 Phonetics. 3 cr. U. Theory of French sounds; phonetic transcription; practice in pronunciation in class and in language laboratory.|Required of teaching majors & minors. Prereq: French 303(215)(P) or cons instr.

395 Reading French for Proficiency. 3 cr. U. Development of reading proficiency in French by focusing on vocabulary acquisition, recognition of cognates, and analysis of complex sentences in short literary and journalistic texts.|Prereq: French 324(327)(P), 325(P), or 332(322)(P).

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially-prepared program coursework.|Retakable w/chg in topic. Prereq: French 203(P); acceptance for Study Abroad Prog; conc reg in French 595(C).

401 French for Reading Knowledge. 3 cr. U. For students with little or no previous knowledge of French; especially useful to graduate students fulfilling a language requirement.|Does not count toward the French major or minor. Prereq: jr st.

410 French Immersion: Advanced. 1 or 2 cr. U/G. Concentrated, structured practice of spoken French; contemporary
topics; small-group setting with native speakers simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered. Retakable to 4 cr max. Prereq: French 324(327)(P) & 325(P), or cons instr.

415 Introduction to Translation: French to English. 3 cr. U. Introduction to basic skills necessary to professional translation. Translation of texts from French into English. Summarizing texts. Sight translation. Prereq: jr st; grade of B or better in French 325(P); French 324(327)(P) or 332(322)(P).

426 (326) Growing Up French. 3 cr. U/G. French civilization from the point of view of the French child, with emphasis on materials familiar to French children and adolescents. Prereq: jr st; two French courses numbered 320 or above or cons instr.

427 Advanced Written Expression. 3 cr. U/G. Development of writing proficiency in a variety of genres through close analysis and imitation of good French writing; emphasis on usage, syntax, and authentic French expression. Prereq: jr st & French 324(327)(P) & 325(P), or grad st.

428 Castles, Cathedrals, and Common People: The Foundations of French Culture. 3 cr. U/G. Study of major aspects of French society and its cultural expressions from the Middle Ages through the Renaissance. Prereq: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

429 Royalty, Reason, and Revolution: The Golden Age of French Culture. 3 cr. U/G. Major aspects of French society and its cultural expressions from the Renaissance through the Revolution. Prereq: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

430 Reaction and Innovation: French Culture of the 19th and 20th Centuries. 3 cr. U/G. French politics, society, and culture from Napoleon's First Empire to De Gaulle's Fifth Republic, 1804-1958. Prereq: jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

431 Seminar in Literature of the Francophone World: (Subtitled). 3 cr. U. Works written in French by writers of Africa, North Africa, the Caribbean, and Quebec. Retakable w/chg in topic to 9 cr max. Prereq: jr st; French 325(P) & 332(322)(P); or cons instr.

432 Seminar in French and Francophone Cultures: (Subtitled). 1-3 cr. U. In-depth study of selected topics in the cultures of France or French-speaking countries. Retakable w/chg in topic to 9 cr max. Prereq: French 324(327)(P) or 325(P), or cons instr.


449 Studies in French Culture: (Subtitled). 2-4 cr. U. French culture through readings and on-site visits. Completing this course does not preclude taking required 300-level courses for cr upon return to UWM. May not enroll conc in French 349. Retakable w/chg in topic to 9 cr max. Prereq: 300-level French course; acceptance for Study Abroad Prog; conc reg in French 595(C).

450 Institutions and Culture of Contemporary France. 3 cr. U/G. Major political, social, cultural and economic forces shaping France today. France within the European Union and the Francophone world. Prereq: jr st; French 325(P); one add'l 300-level French course or cons instr.


457 Topics in French and Francophone Studies in Translation: (Subtitled). 3 cr. U/G. Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and
465 Introduction to Translation: English to French. 3 cr. U/G. Translation of texts from English into French. Comparative study of French and English syntax and comparative culture. French 465 & Trnsltn 465 are jointly offered; they count as repeats of one another. Counts as repeat of French 499 with "Intro to English to French Translation" topic. Prereq: jr st; grade of B or better in French 325(P); French 427(P) or cons instr.

489 Internship in French. 1-6 cr. U. Application of advanced principles of French in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; a 300-level or above course in French; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: French 203(P); acceptance for Study Abroad Prog; conc reg in French 595(C).

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

510 Seminar on Masterpieces of Literature Written in French: (Subtitled). 3 cr. U/G. Representative works of a major writer or writers. Retakable w/chg in topic to 9 cr max. Prereq: jr st; French 325(P) & 332(322)(P); or cons instr.

520 Seminar in Contemporary French Literature: (Subtitled). 3 cr. U/G. Trends and schools in contemporary novels, theatre, and poetry. Retakable w/chg in topic to 9 cr max. Prereq: jr st; French 325(P) & 332(322)(P); or cons instr.


595 Study Abroad in France. 10-12 cr. U. Designed to enroll students before level, content and credits of work in France are determined. Translated into French 290, 390, or 490 upon completion of program. Prereq: French 203(P); acceptance for Study Abroad Prog.

599 Tools and Techniques of Research in French. 1 cr. U. Library resources available for research in French language and literature, including online academic databases, the library catalogue, and reference books. Prereq: jr st; conc reg in one of French 428(C), 429(C), 430(C), 431(C), 432(C), 433(C), 450(C), 510(C), or 592(C).

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.

699 Advanced Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a French faculty or instructional academic staff member. For further information, consult French prog coord. Retakable w/chg in topic. Prereq: jr st; two 300-level French courses, 2.5 gpa & writ cons instr, dept chair, & assoc dean of SAS.
192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific social science topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.


275 Queer Migrations. 3 cr. U. How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities. No cr for students w/cr in Ethnic 250 w/similar topic. Ethnic 275 & LGBT 275 are jointly offered; they count as repeats of one another. Prereq: none.

289 Internship in LGBT Studies, Lower Division. 1-6 cr. U. Application of basic principles of LGBT studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa; cons supervising faculty member.

290 Topics in LGBT Studies: (Subtitled). 3 cr. U. Selected LGBT topics and issues. Specific topics and add'l prereqs announced in Schedule of Classes each time course is offered. Retakable w/chg in topic to 9 cr max. Prereq: none.

290 (effective 09/02/2015) Topics in LGBT Studies: (Subtitled). 3 cr. U. Selected LGBT topics and issues. Specific topics and add'l prereqs announced in Schedule of Classes each time course is offered. Retakable w/chg in topic to 9 cr max. Prereq: none.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising
member of the faculty or staff. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in LGBT Studies, Upper Division. 1-6 cr. U. Application of basic principles of LGBT studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st: 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

599 Selected Topics in LGBT Studies: (Subtitled). 3 cr. U. Focus on a particular LGBT topic and/or issue. Retakable w/chg in topic to 9 cr max. Prereq: jr st; LesBGay 200(P) or cons instr.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a LGBT studies faculty or academic staff member. Retakable w/chg in topic to 9 cr max. Prereq: jr st: 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.
105 Introduction to Human Geography. 3 cr. U. How humans interact with and alter the Earth through cultural, political, and economic processes; how these processes are dependent on and affect Earth's natural resources. 2 hrs lec, 1 hr dis.|Prereq: none.

110 The World: Peoples and Regions. 3 cr. U. Introduction to regional cultural geography through a study of representative and significant areas of the earth.|Prereq: none.

114 Geography of Race in the United States. 3 cr. U. Contemporary geographic issues of segregation, assimilation, belonging, and exclusion facing African-American, white, Asian, Latino, Native American and either groups in the U.S. 2 hrs lec, 1 hr dis.|Prereq: none.

120 Our Physical Environment. 3 cr. U. Characteristics and significance of world land form, climate, soils, vegetation, and mineral and water resources. 2 hrs lec, 2 hrs lab/dis.|Not open for cr to students w/cr in Geog 121(ER), 122(ER). Required all-day field trip for which fee is assessed. Prereq: none.

125 Introduction to Environmental Geography. 3 cr. U. Introduction to environmental geography and related environmental problems aimed at understanding of the earth's systems in our daily encounter with them.|Prereq: none.

128 Introduction to Caves and Caving. 3 cr. U. An introduction to the science of speleology, to the underground world of caves, and to the techniques and history of caving.|Prereq: none.


193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.
199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

213 Geography of Asia. 3 cr. U. Population, resources, development, and diversity. Regions discussed are East Asia, Southeast Asia, South Asia, and Central Asia. Prereq: soph st.

214 Wisconsin. 3 cr. U. Regional examination of physical features, resources, people, land utilization, and economic development. Prereq: soph st.

215 Introduction to Geographic Information Science. 3 cr. U. Geographic objects, their representation and analysis. Topics include special nature of spatial data; concepts of space, mapping, spatial relationships; and use of geographic information systems. 2 hrs lec, 2 hrs lab. Prereq: none.

216 Geography of the United States and Canada. 3 cr. U. Physical features, resources, peoples, and utilization and economic development of the United States and Canada. Prereq: soph st.

225 The Language of Maps. 3 cr. U. Maps as a visual language. An introduction to their making, conventions, distortions, use, and significance in society. Historical examples. Prereq: soph st.

231 (130) Geography of Islam. 3 cr. U. Origin and main features of Islam and the diversity of Muslim cultures in various geographical, social, cultural, and political contexts. Prereq: none.

247 (447) Quantitative Analysis in Geography. 3 cr. U. Application of quantitative measures to geographic problems. Topics include descriptive statistics, statistical inference, and bivariate relationships. 2 hrs lec, 2 hrs lab. Prereq: Math 105(P).

253 Austria: The Second German State. 1 cr. U. Lands and people of Austria; climate, soils, and mineral resources; settlements and economy; the role of Austria today. Prereq: soph st.

261 Africa: Topical Analysis. 3 cr. U. Countries south of the Sahara. Prereq: soph st.

289 Internship in Geography, Lower Division. 1-6 cr. U. Application of basic principles of geography in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Geog; 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance into UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.


306 Natural Hazards. 3 cr. U. An introduction to processes and conditions responsible for natural hazards, reasons for geographic patterns of hazards' occurrence, and modes of adjustment to natural hazards. Prereq: jr st; a physical geog

310 General Climatology. 3 cr. U. Global patterns of climate and the processes that shape them. Climatic elements, upper-atmospheric waves, internet data, Midwest climate, climate classification, and climate change. Prereq: jr st; Geog 120(P) or Atm Sci 100(P) or 240(P).

315 Globalization and Economic Development. 3 cr. U. Geographic perspectives on world economy: geographic organization of contemporary production and consumption around the world; historical development of capitalist economy; economic geography of globalization processes. Prereq: Geog 105(P), 110(P), 114(P), or 140(P).


332 China: Peoples, Regions, and Development. 3 cr. U. Geographic examination and explanation of change in China, including population, resources, development processes, environment, diverse cities and regions, and integration into the global economy. Prereq: jr st.

340 Biogeography. 3 cr. U. An introduction to the geography of the biosphere, the earth's surface, and the plants and animals which live there. Prereq: jr st; a physical geog or a biology course recom.

350 Conservation of Natural Resources. 3 cr. U. Analysis of environmental ethics; the positive and negative consequences of resource development with emphasis on strategies designed to resolve environmental conflicts. Prereq: jr st or a geog course.

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in geography. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors200(P); cons Honors College dir.

400 Population, Environment, Development. 3 cr. U/G. Population processes and policies in different geographical contexts: fertility, mortality, migration, and policies affecting these; population-environment relations; interactions of population and economic development. Prereq: jr st; Geog 105(P), 110(P), 114(P), or 140(P).

403 Remote Sensing: Environmental and Land Use Analysis. 4 cr. U/G. Use of aerial photographs and digital imagery in environmental and land use analysis, including urban areas. 3 hrs lec; 2 hrs lab. PC/Windows familiarity recom. Prereq: jr st & Geog 215(P); or grad st.

405 Cartography. 4 cr. U/G. Thematic cartography; map communication, design principles, illustration and mapping software. 3 hrs lec, 2 hrs lab. Prereq: jr st & Geog 215(P); or grad st.

410 Gendered Geographies. 3 cr. U/G. Various ways feminist geographers have analyzed gender in relation to phenomena such as the body, home, work, the nation, colonization, and globalization. Prereq: jr st & one of Geog 105(P) or 110(P) or Wmns 200(P) or 201(P) or equiv; or grad st.

411 Physical Climatology. 3 cr. U/G. Analyzing climatic processes at the microclimate scale. Budgets of radiation, energy, water, and momentum at the earth's surface, sensible-latent heat, and soil-plant-atmosphere interactions. Prereq: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.

415 Hydrogeography. 3 cr. U/G. Role of water in geographic systems. Interaction of water with physical and human systems, key hydrological processes, spatial and temporal variations of water, data collection, modeling. Prereq: jr st, Geog 120(P) or 125(P), & Geog 215(P); or grad st.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>420</td>
<td>Methods and Principles in Land Form Geography</td>
<td>3</td>
<td>Geographic qualitative and quantitative methods in land form analysis and principles of landscape evolution.</td>
<td>Prereq: jr st &amp; Geog 120(P) or 121(P) or Geo Sci 101(P).</td>
</tr>
<tr>
<td>421</td>
<td>Geography of Latin America</td>
<td>3</td>
<td>Topical and regional analysis of physical features, discovery and exploration, processes of settlement, evolution of the landscape, and problems of development through modern times.</td>
<td>Prereq: jr st &amp; Geog 110(P) or 120(P) or 125(P); or grad st.</td>
</tr>
<tr>
<td>424</td>
<td>Karst Geomorphology</td>
<td>3</td>
<td>Description and analysis of karst (limestone) processes and landforms.</td>
<td>Prereq: jr st; Geog 004(P), 120(P) or cons instr.</td>
</tr>
<tr>
<td>430 (330)</td>
<td>Geography of Transportation</td>
<td>3</td>
<td>Geographic analysis of transportation, with emphasis on commodity flows and traffic patterns.</td>
<td>Prereq: jr st; Geog 115(P).</td>
</tr>
<tr>
<td>437</td>
<td>Qualitative Methods in Geography</td>
<td>3</td>
<td>Research design, interview, focus group, ethnography, survey, and discourse analysis; epistemological debates and the methodological and ethical issues that arise throughout the research process.</td>
<td>Prereq: jr st; Geog 105(P), 110(P), 114(P), or 140(P).</td>
</tr>
<tr>
<td>441</td>
<td>Geography of Cities and Metropolitan Areas</td>
<td>3</td>
<td>Extent, localization, and geographic relations of land uses, facilities, and internal circulation, with particular reference to large North American cities.</td>
<td>Prereq: jr st &amp; intro course in geog or acceptable course in an urban related field, e.g. Econ, UrbPlan, Urb Std; or grad st.</td>
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<tr>
<td>443</td>
<td>Cities of the World: Comparative Urban Geography</td>
<td>3</td>
<td>Geographic analysis of world urban systems with emphasis on the cultural traditions, form, function and socio-economic development of cities.</td>
<td>Prereq: jr st &amp; Geog 110(P), 115(P), or 140(P).</td>
</tr>
<tr>
<td>450</td>
<td>Climates of the Past and Climate Change</td>
<td>3</td>
<td>Climatic history of the earth and climate models. Milankovitch theory, quaternary climates, temporal-spatial scales of change, general circulation, and earth system models.</td>
<td>Prereq: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), &amp; Geog 310(R); or grad st.</td>
</tr>
<tr>
<td>455</td>
<td>Applied Climatology</td>
<td>3</td>
<td>Applications of climate processes and data. Solar energy, wind energy, food production, water usage, building design, urban environments, ecological assessment, and land form development.</td>
<td>Prereq: jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), &amp; Geog 310(R); or grad st.</td>
</tr>
<tr>
<td>462</td>
<td>Cultural Geography of Latin America</td>
<td>3</td>
<td>Development of cultural landscapes, with emphasis on land use and environmental change resulting from European introductions; historical explanation of modern landscapes and environmental problems.</td>
<td>Prereq: jr st; one of Geog 105(P), 110(P), 421(P), 422(P), Hist 180(P), 388(P), 389(P), or 390(P).</td>
</tr>
<tr>
<td>464</td>
<td>Environmental Problems</td>
<td>3</td>
<td>General discussion and case studies of geographical contexts and historical roots of modern environmental problems. History of human concern over adverse environmental impacts.</td>
<td>Prereq: jr st &amp; an intro course in a life science or environmental science.</td>
</tr>
<tr>
<td>470</td>
<td>Geography of South Asia</td>
<td>3</td>
<td>Survey of the historical, cultural and economic geography of South Asia, including India and adjacent countries.</td>
<td>Prereq: jr st; intro Geog, Anthro, or Econ course.</td>
</tr>
<tr>
<td>475</td>
<td>Geography of Soils</td>
<td>3</td>
<td>Systematic and regional study of soils, interrelationships of soils with the physical and cultural landscape.</td>
<td>Prereq: jr st; Geog 120(P), 121(P), or 125(P) or equiv.</td>
</tr>
<tr>
<td>489</td>
<td>Internship in Geography, Upper Division</td>
<td>1-6</td>
<td>Application of advanced principles of geography in a business, organizational, educational, political, or other appropriate setting.</td>
<td>One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Geog; 2.25 gpa; cons supervising faculty member.</td>
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<tr>
<td>496</td>
<td>UROP Apprenticeship</td>
<td>1-3</td>
<td>Undergraduate research participation in a project developed with</td>
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a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max. Prereq: jr st; acceptance to UROP.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

515 Watershed Analysis and Modeling. 3 cr. U/G. Theories and applications of analytical and modeling techniques for watershed processes, including geographic information systems (GIS), statistics, and computer simulations. Prereq: jr st; working knowledge of GIS; Geog 415(R) or Geo Sci 463(R) or 562(R); or grad st.

520 Physical Geography of the City. 3 cr. U/G. Spatial aspects and interactions of plants, animals, climate, soils, and water resources relevant to human activities in the urban environment. Prereq: jr st & Geog 120(P) or 125(P); or grad st.

525 Geographic Information Science. 4 cr. U/G. Geographic and information theoretical foundations of geographic information science (GIS). Use of macro languages in a software project to expand GIS functionality. 3 hrs lec, 2 hrs lab. Prereq: jr st, & Geog 215(P); or grad st.

540 Globalization and the City. 3 cr. U/G. Spatial aspects of globalization and their impact on the city. Topics include emergence of global cities, impacts on urban development, and global era urban strategies. Prereq: jr st.

547 Spatial Analysis. 4 cr. U/G. Advanced analysis techniques, including multivariate relationships and spatial modeling. Prereq: jr st; Geog 247(P) or dept-approved equiv.


600 Perspectives on Geography. 3 cr. U. Seminar on concepts, methods, and approaches to geographic inquiry. Discussion of professional geographic materials, bibliographic procedures and methodologies. Prereq: sr st; declared geography major; writ cons instr.

625 Intermediate Geographic Information Science. 4 cr. U/G. Concepts and techniques of geographic information science (GIS), with emphasis on GIS-based spatial analysis, associated applications, and technology. 3 hrs lec, 2 hrs lab. Prereq: jr st: Geog 525(P) or UrbPlan 591(P) or 791(P); or cons instr.

647 (effective 09/02/2015) ArcGIS Programming with Python. 4 cr. U/G. Fundamentals of Python programming language; focus on programming designed to automate ArcGIS geoprocessing tasks, manipulate spatial data (including geometries and rasters), and create customized tools. Prereq: jr st; C+ or better in Geog 525(P) or cons instr or grad st.

650 Geography Field Work. 3 cr. U/G. Geographic field techniques and field problems; classroom preparations and field projects. Students will pay fieldwork expenses. Retakable w/chg in topic to 9 cr max. Prereq: jr st; writ cons instr.

654 Tropical Field Course: (Subtitled). 3 cr. U/G. Study of geographic field problems and techniques in the tropics. Classroom preparations, field projects and field trip to the tropics. Students will pay field trip expenses. Retakable for cr w/chg of field topic & site to 9 cr max. Prereq: jr st; writ cons instr.

696 Independent Work in Physical Geography. 1-3 cr. U. Independent reading or project on a physical geography topic under the supervision of a geography faculty member. Retakable w/chg in topic to 6 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, & assoc dean for SAS.
698 GIS/Cartography Internship. 1-6 cr. U/G. Practical GIS/cartography experience with government agency or private firm under supervision of working expert and faculty member. Intern's contract specifies duties and duration. Retakable to 6 cr max. Prereq: jr st; Geog 215(P); writ cons instr & dept chair.

699 Independent Work. 1-3 cr. U. Independent reading or project. See Advanced Independent Study. Retakable w/chg in topic to 6 cr max. Prereq: jr st, 2.5 gpa, & writ cons instr, dept chair & asst dean for SAS.
100 Introduction to the Earth. 3 cr. U. Study of earth processes and materials as they relate to man and the environment. Lec, lab. Voluntary field trip for which fee is assessed. No cr for students w/cr in Geo Sci 185. Prereq: none.

102 Principles of Historical Geology. 3 cr. U. Principles for interpreting the physical and paleontological history of the earth using case studies from the rock record. 2 hrs lec, 3 hrs lab. Field trip for which fee is assessed. Prereq: Geo Sci 100(P) or 185(P).

105 Earth, Air, Fire and Water. 3 cr. U. A study of planet Earth from formation through history to modern-day oceans, atmosphere, continents, and interior; how all interact to form the human environment. Prereq: none.

106 The Earth Environment. 3 cr. U. The Earth and its environment; emphasis on the interrelationships of humans with the Earth's processes and responses. Lec. Voluntary field trip for which fee is assessed. Prereq: none.

108 A History of Life. 3 cr. U. Major features of the history of life; how paleontologists reconstruct this history. 2 hrs lec, 2 hrs lab. Prereq: none.

120 Geology of the Planets. 3 cr. U. Geological features of the planets, similarities and differences in materials and processes, significance of space exploration to geology. Lec/Lab. Prereq: none.

150 Introduction to Ocean Sciences. 3 cr. U. Survey of the interdisciplinary sciences supporting oceanography. Designed for students who do not plan to major in geological sciences but are interested in the recent advances of marine sciences. Lec, voluntary dis. Not open for cr to students who have had Geo Sci 460. Prereq: none.

151 Ocean Sciences Laboratory. 1 cr. U. Laboratory exercises and demonstrations of the physical, chemical and biological processes operating in the oceans and how scientists study these processes. 2 hrs lab. Not open for cr to students who have had Geo Sci 460 or 461. Prereq: Geo Sci 150(C).

185 Introductory Earth Science for Teachers. 3 cr. U. A study of the rock cycle, water cycle and atmosphere of the earth and the essential processes that affect them. 2 hrs lec; 2 hrs lab/dis. Not open for cr to students w/cr in Geo Sci 100, 105, or Atm Sci 105. Required field trips for which fees are assessed. Prereq: regis in elem, early childhood, or exc educ curric, EDBA classif, or cons instr.
194 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

208 Geology of Wisconsin. 1 cr. U. Introduction to the geologic events and processes which shaped the scenic Wisconsin landscape with emphasis on geologically significant recreational areas accessible to the public. Not open for cr to students with Geo Sci 011. Prereq: college course in physical geology or physical geography.

250 Marine Science at Sea: A Hands-On Laboratory. 3 cr. U. Marine field work at sea from an oceanographic vessel. Not open for cr to students who completed Geo Sci 150 at sea in UWinteriM 2003. Prereq: Geo Sci 150(P) or cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

301 Principles of Mineralogy. 3 cr. U. Major rock-forming minerals, their associations, geologic occurrence, and importance with an emphasis on identification using physical properties and other techniques. 2 hrs lec, 3 hrs lab. Prereq: Geo Sci 100(P); course in college chem.

302 Elementary Petrology. 3 cr. U. Continuation of Geo Sci 301. Igneous and metamorphic rocks, including classification, genesis, field identification, and petrographic microscope study. 2 hrs lec, 3 hrs lab. Required field trip for which fee is assessed. Prereq: Geo Sci 301(P).

316 Introduction to Geophysics. 3 cr. U. The study of geophysical methods and their applications to the understanding of the interior of the Earth and global tectonics. Lec. Prereq: Geo Sci 100(P) or 101(P) & Physics 120(P) or 209(P).

317 Stable Isotope Geochemistry. 3 cr. U/G. To understand the fractionation and mass balance of stable isotope systems in nature and their application to geologic problems. Prereq: jr st; Geo Sci 100(P) or 101(P); & Chem 104(C) & Geo Sci 301(P).

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics. Retakable w/chg in topic to 9 cr max. Field trips may be required. Prereq: soph st; Honors 200(P); cons Honors College dir.

390 Seminar in Geosciences Research and Communications Methods. 3 cr. U. Techniques of professional geosciences research and communication including development of proposals/grants, reports, and literature searches. Oral and written presentations required. 3 hrs lec/dis. Prereq: major in geo sci or earth sci educ; intro course in geo sci; completion of English Composition competency req.

400 Water Quality. 3 cr. U/G. Water availability and water quality in surface and subsurface water bodies; management of water as a resource. 2 hrs lec, 3 hrs lab. Prereq: jr st; Chem 102(P); Math 232(P); or cons instr.

401 General Soil Science. 3 cr. U/G. Soil profile development, weathering, soil mineralogy, water and nutrient relationships, classification of soil. 2 hrs lec, 3 hr lab. Required field trips for which fees are assessed. Prereq: jr st; Chem 104(P) or equiv or cons instr.
405 Geology for In-Service Teachers: (Subtitled). 1-3 cr. U/G. Basic, advanced or new topics in geology for in-service teachers. Retakable with change in topic to max of 9 cr. Prereq: in-service teacher, additional prereqs depending on topic.

409 Process Geomorphology. 3 cr. U/G. Study of geological processes and their effect on the formation and evolution of land forms. Lec, lab, field trips for which fee is assessed. Prereq: jr st; Geo Sci 100(P), Geog 120(P), or 121(P).

414 Structural Geology. 3 cr. U. Description and analysis of primary and secondary geological structures; regional and global frameworks of geological structures. 2 hrs lec, 2 hrs lab. Field trip for which fee is assessed. Prereq: jr st; math placement level of A; Geo Sci 302(C).

435 History of Geologic Thought. 3 cr. U/G. History of development of the major concepts in geology. Prereq: jr st; Geo Sci 102(P) or cons instr.


443 Glacial and Pleistocene Geology. 3 cr. U/G. Mechanics of glacial flow, Pleistocene stratigraphy, and laboratory techniques. Lec, lab, & field trips for which fees are assessed. Prereq: jr st; Geo Sci 100(P) or 101(P) or Geog 120(P) or 121(P). Geo Sci 102(R) or 108(R).

455 Field Geology. 3-8 cr. U. Geologic field work and mapping. Taken off-campus, usually during the summer. Retakable to 8 cr max. Prereq: sr st; Geo Sci 302(P) & 414(P).

461 Physical Oceanography. 3 cr. U/G. Overview of physical oceanography, conservation of mass, salinity and momentum, thermodynamics, equations of motion. Waves, currents and circulation. Prereq: jr st; Math 232(P); & Physics 123(P) or 210(P).

463 Physical Hydrogeology. 3 cr. U/G. Study of ground water occurrence, its interrelationship with surface water, aquifer properties, groundwater flow and water supply development, including well hydraulics, water quality, and groundwater law. Lec, lab, & field trip for which fee is assessed. Prereq: jr st; Geo Sci 100(P) or 101(P); Math 232(P).

464 Chemical Hydrogeology. 3 cr. U/G. Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. Lec, lab, Frshwrtr 464 & Geo Sci 464 are jointly-offered; they count as repeats of one another. Prereq: jr st; Chem 102(P).

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

511 Stratigraphy and Sedimentation. 3 cr. U/G. Techniques and principles of sedimentology and stratigraphy, including methods of correlation, analysis of facies, stratigraphic mapping, and tectonic controls of sedimentation. Lec, lab, field trips. Prereq: jr st; Geo Sci 102(P) or equiv.

515 Physical Sedimentology. 3 cr. U/G. Physical properties, processes, and environments of clastic sediments. Lec, lab, field trip for which fee is assessed. Prereq: jr st; Geo Sci 511(P).

520 Introduction to Paleontology. 3 cr. U/G. General study of fossils and theoretical principles used in the study of paleontology. Lec, lab, field trips. Prereq: jr st; Geo Sci 102 or 108.
525 Terroir: Geology in a Glass. 3 cr. U/G. The geology, soil types, and climate of famous wine regions; factors that influence the production of fine wine. No cr for students w/cr in Geo Sci 696 w/same topic. Prereq: jr st; Geo Sci 100(P).


558 Conducted Field Trip: (Subtitled). 1-3 cr. U/G. Field trip to a classical geologic area. Preceded by a seminar. Retakable w/chg in topic to 9 cr max, only 3 cr of which may be applied toward geo sci major. Prereq: jr st; cons instr.

562 Environmental Surface Hydrology. 3 cr. U/G. Land-atmosphere interactions, modeling of runoff generation, and water movement in the vadose zone. 3 hrs lec. Prereq: jr st; Math 232(P); or cons instr.

563 Field Methods in Hydrogeology. 3 cr. U/G. Introduction to current equipment and methodology used in field evaluation of hydrologic systems. Well installation and monitoring, stream gaging, indirect surface observations. Lab, field trip for which fee is assessed. Prereq: jr st; Geo Sci 463(P).

599 Geology of Wisconsin--Field Course. 3 cr. U/G. Multi-institutional team-taught, conducted field course throughout Wisconsin; instruction in the field, using exposures on which Wisconsin's geological history has been interpreted. Prereq: jr st; Geo Sci 302(P).

614 Advanced Structural Geology. 3 cr. U/G. Advanced analysis of deformation as applied to geological structures from microscopic through regional scales. Lec, field trip for which fee is assessed. Prereq: jr st; Geo Sci 414(P); Math 231(C).

635 Volcanology. 3 cr. U/G. Why and when volcanoes erupt; predicting whether eruptions will be explosive or passive. Prereq: jr st; Geo Sci 302(P) or cons instr.

636 Geochronology. 3 cr. U/G. Theory and application of radiometric and other numerical dating methods in geology, archaeology, and paleoanthropology. Anthro 636 & Geo Sci 636 are jointly offered; they count as repeats of one another. Prereq: jr st, Anthro 101(P) or 103(P) or Geo Sci 100(P), & cons instr; or grad st & cons instr.

637 Planetary Geology. 3 cr. U/G. Advanced study of planetary geology, for advanced undergraduate and graduate students. No cr for students w/cr in Geo Sci 697 w/same topic. Prereq: jr st; Geo Sci 301(P) or Astron 211(P) or 400(P); completion of OWC-A GER (English 102 or equiv placement).


655 Topics in Structure and Tectonics: (Subtitled). 1-3 cr. U/G. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Geo Sci 414(P) or cons instr.

663 Earthquake Seismology. 3 cr. U/G. Cause, size, location, hazards, prediction and control of earthquakes and the interpretations of earthquake seismograms. Prereq: jr st; Geo Sci 316(P); or grad st & cons instr.

668 Geoelectrical Methods. 3 cr. U/G. Fundamentals of electrical resistivity surveys and electromagnetic methods, with an emphasis on surficial and environmental applications. Prereq: jr st; Geo Sci 316(C), 463(C), or 661(C).

688 Seminar in Geosciences for Teachers: (Subtitled). 1-6 cr. U/G. Seminar modules on various topics in geosciences offered for teachers. Open only to practicing science teachers with demonstrable expertise in geoscience. Retakable w/chg in topic to 9 cr max. Prereq: current teaching contract.
694 Undergraduate Seminar: (Subtitled). 1-3 cr. U. Intensive study of a selected topic in a seminar format. Retakable w/chg in topic to 9 cr max, of which up to 3 cr may count in major requirements. Prereq: jr st; cons instr.

695 Internship in Geoscience. 1-3 cr. U/G. An internship consistent with the student's plan of study in geosciences. Requirements and evaluation determined by the department on an individual basis. Prereq: jr st; cons dept.


697 Seminar in the Geological Sciences: (Subtitled). 1-3 cr. U/G. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

698 Research Experience for Teachers. 1-6 cr. U/G. Enrichment of students' geoscience background. Work with faculty mentor to develop an innovative teaching program for use in students' own classrooms. Open only to practicing science teachers with demonstrable expertise in geoscience. Retakable w/chg in topic to 9 cr max. Prereq: current teaching contract.

699 Advanced Independent Reading. 1-3 cr. U. Advanced independent geologic study under supervision of Geo Sci faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult supervising instr or dept chair. Retakable w/chg in topic to 3 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, & assoc dean for SAS.
GERMAN German

101 First-Semester German. 4 cr. U. Introductory course for students who have had no previous work in German. Prereq: 0-2 yrs of HS German or level 1 score on German placement test.

102 Second-Semester German. 4 cr. U. Continuation of German 101. Prereq: grade of C or better in German 101(P) or level 2 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

111 German Life and Civilization: Part I. 3 cr. U. The historical and cultural heritage of Germany from earliest times to 1806: major figures and developments in German art, literature, music, philosophy, and language. In English. Prereq: none.

112 German Life and Civilization: Part II. 3 cr. U. The historical and cultural heritage of Germany from 1806 to the present: major figures and developments in German art, literature, music, education, and philosophy. In English. Prereq: none.

115 Seminar on Scandinavian Culture: (Subtitled). 3 cr. U. In-depth study of a specific topic in Scandinavian culture, e.g., theatre, film, literature, women's issues, etc. Retakable w/chg in topic to 9 cr max. Prereq: none.

145 Views of Germany: (Subtitled). 3 cr. U. In-depth study of selected aspects of German civilization as reflected in literature. Retakable w/chg in topic to 9 cr max. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/change in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. May not be retaken. Prereq: soph st; 2.5 gpa, cons instr & dept chair.

203 Third-Semester German. 3 cr. U. Continuation of German 102. Prereq: grade of C or better in German 102(P) or level 3 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).
204 German in Your Field and Beyond. 3 cr. U. Continuation of German 203. Grammar structures; vocabulary development through reading, writing, and speaking about subjects in students' fields of study; inter- and cross-disciplinary studies. Prereq: grade of C or better in German 203(P) or level 4 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, Italian 213, Linguistics 213, Polish 213, Russian 213 & Spanish 213. Prereq: none.


271 Essentials of German Grammar. 3 cr. U. Systematic review and practice of grammar. Prereq: German 204 or equiv, or cons instr.

289 Internship in German, Lower Division. 1-6 cr. U. Application of basic principles of German in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in German; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance in Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

331 Intermediate German Grammar and Usage. 3 cr. U. Review of major structures in German grammar; application of those structures through writing and speaking. Emphasis on written accuracy and proficiency. Prereq: German 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

332 (426) Intermediate Conversation and Composition. 3 cr. U. Practice in conversation and composition, with emphasis on issues in post-war and contemporary German culture, written accuracy, and proficiency. Prereq: German 331(P).

333 Analysis of German Texts. 3 cr. U. Introduction to a variety of texts in German culture, written accuracy, and proficiency. Prereq: German 331(P).

334 Introduction to German Literature and Culture. 3 cr. U. Survey of German literature and culture from 1750 to the present. Students are encouraged to take 332 before 333. Prereq: German 331(P).

341 Undergrad Seminar in German-Amer Studies: Germans in Wisconsin & Milwaukee. 3 cr. U. Student projects and presentations on the various aspects of the German heritage in Wisconsin and Milwaukee. Required of ethnic studies majors with a German-American concentration. Prereq: jr st.

360 German for the Global World. 3 cr. U. Vocabulary, writing, reading, and oral German skills needed for the global world. Prereq: German 332(426)(P); German 333(R) & 334(R).

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

410 German Cultural History. 3 cr. U/G. Major aspects of German culture from the Middle Ages to the end of the 18th century. Prereq: jr st; German 332(426)(P); German 333(R) & 334(R).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>415</td>
<td>Topics in German Civilization: (Subtitled)</td>
<td>3 cr</td>
<td>U/G. In-depth study of selected topics of German civilization. Critical analysis and practical application of texts and teaching aids. Recommended for present and future high school teachers. Retakable w/chg in topic to 9 cr max. Prereq: jr st; German 332(426)(P); German 333(R) &amp; 334(R).</td>
</tr>
<tr>
<td>425</td>
<td>Introduction to German Translation</td>
<td>3 cr</td>
<td>U. Introduction to basic skills necessary to professional translation. Translation of texts from German into English and from English into German. Summarizing texts. Sight translation. Prereq: jr st; German 332(426)(P), 333(P), &amp; 334(P).</td>
</tr>
<tr>
<td>450</td>
<td>German Literature: Enlightenment, Storm and Stress, Classicism</td>
<td>3 cr</td>
<td>U. Major literary movements and writers in the late eighteenth century. Emphasis on Lessing, Schiller, and Goethe. Prereq: German 332(426)(P), 333(P), &amp; 334(P).</td>
</tr>
<tr>
<td>451</td>
<td>Introduction to German Linguistics</td>
<td>3 cr</td>
<td>U/G. The nature of linguistics; aspects of phonology, morphology, syntax, semantics; discourse and text; varieties of German; acquisition of German as a foreign language. Prereq: German 332(426)(P).</td>
</tr>
<tr>
<td>452</td>
<td>German Literature from Romanticism to the Revolution of 1848</td>
<td>3 cr</td>
<td>U. Major literary movements, writers, and works of the first half of the nineteenth century. Prereq: German 332(426)(P), 333(P), &amp; 334(P).</td>
</tr>
<tr>
<td>454</td>
<td>German Literature: Realism, Naturalism, and the Turn of the Century</td>
<td>3 cr</td>
<td>U. Major literary movements, writers, and works of the second half of the nineteenth century. Prereq: German 332(426)(P), 333(P), &amp; 334(P).</td>
</tr>
<tr>
<td>456</td>
<td>German Literature from the Turn of the Century to World War II II</td>
<td>3 cr</td>
<td>U. Major literary movements, writers, and works of the first half of the twentieth century; expressionism, 'Neue Sachlighkeit,' and exile literature. Prereq: German 332(426)(P), 333(P), &amp; 334(P).</td>
</tr>
<tr>
<td>460</td>
<td>German Literature from 1965 to the Present</td>
<td>3 cr</td>
<td>U/G. Literary writers and works of the German-speaking countries from 1965 to the present. Prereq: jr st; German 332(426)(P), 333(P), &amp; 334(P).</td>
</tr>
<tr>
<td>488</td>
<td>Topics in German Philology: (Subtitled)</td>
<td>3 cr</td>
<td>U/G. Topics pertaining to advanced German language study or to the development of the German language in its spoken or written form. Retakable w/chg in topic to 6 cr max. Prereq: jr st; German 332(426)(P); German 333(R) &amp; 334(R).</td>
</tr>
<tr>
<td>489</td>
<td>Internship in German, Upper Division</td>
<td>1-6 cr</td>
<td>U. Application of advanced principles of German in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: German 332(426)(P), 333(P), &amp; 334(P); 2.25 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>497</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr</td>
<td>U/G. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.</td>
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<tr>
<td>499</td>
<td>Ad Hoc: (Subtitled)</td>
<td>1-6 cr</td>
<td>U. Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prerequisites may be assigned to specific topic.</td>
</tr>
<tr>
<td>525</td>
<td>Seminar in Advanced German Translation</td>
<td>3 cr</td>
<td>U. Refinement of translation skills; concentration on specific types of texts. Prereq: jr st; German 425(P).</td>
</tr>
<tr>
<td>597</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr</td>
<td>U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/change in topic. Prereq: jr st; acceptance in Study Abroad Prog.</td>
</tr>
</tbody>
</table>
| 626 (526)   | Advanced German Grammar and Usage                                           | 3 cr    | U/G. Analysis and discussion of a variety of text topics and...
genres. Practice in speaking and writing German; attention to written accuracy and sophistication of form. [Prereq: jr st; German 332(426)(C). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

643 Seminar on Genre Studies: (Subtitled). 3 cr. U/G. Major genres in German literature -- the drama, the novel, the novelle, poetry and film. [Retakable w/chg in topic to 9 cr max. Prereq: jr st; one course from the group German 450-458(C).]

645 Seminar on Representative German Authors: (Subtitled). 3 cr. U/G. Works of representative authors. Any add'l prereqs announced in Schedule of Classes each time course is offered. [Retakable w/chg in topic: undergrad, unlimited; grads, 9 cr max. Prereq: jr st; one course from the group German 450-458(P).]

647 Seminar on Themes and Motifs in German Literature: (Subtitled). 3 cr. U/G. Recurring patterns and figures in the major genres. [Retakable w/chg in topic to 9 cr max. Prereq: jr st; one course from the group German 450-458(C).]

649 Seminar on Theoretical Approaches to German Literature: (Subtitled). 3 cr. U/G. Particular theoretical ideas and methods applied to selected texts; literary movements in relation to philosophy and aesthetics. [Retakable w/chg in topic to 9 cr max. Prereq: jr st; one course from the group German 450-458(C).]

671 Seminar on Phonetics. 3 cr. U/G. Articulatory phonetics and phonemics, emphasis on English-German contrasts and pronunciation difficulties; phonetic transcription; drills in pronunciation. [Prereq: jr st; German 331(P).]

672 (461) German for Professional Purposes. 3 cr. U/G. Language and structures of Germany's professional world. Historical, political, legal, economic, social and cultural forces shaping Germany today. [Prereq: jr st; German 332(426)(P), 333(P) & 334(P).]

681 Seminar on the History and Structure of German. 3 cr. U/G. Historical development of the German language from its beginnings to the present. [Prereq: jr st; German 332(P).]

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. [Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.]

699 Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a German faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult the German program coord. [Retakable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.]

This course information produced at 01:00 on 07/30/2015.
103 First Semester Greek. 4 cr. U. Systematic introduction to the morphology, syntax, and vocabulary of ancient Greek.|Prereq: none.

104 Second Semester Greek. 4 cr. U. Continuation of Greek 103; systematic introduction to the morphology, syntax, and vocabulary of Greek.|Prereq: Greek 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

205 Third Semester Greek. 4 cr. U. Continuation of Greek 104: systematic introduction to the morphology, syntax, and vocabulary of Greek.|Prereq: Greek 104(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro crs).

289 Internship in Greek, Lower Division. 1-6 cr. U. Application of basic principles of Greek in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Greek; 2.25 gpa; cons supervising faculty member.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

306 Readings in Ancient Greek Literature: (Subtitled). 3 cr. U. Reading of texts of Greek literature, with emphasis on morphology, syntax, and vocabulary.|Counts as repeat of only 1 cr of Greek 304 regardless of the number of times 306 is taken. Retakable w/chg in topic; no max cr. Prereq: Greek 205(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).

489 Internship in Greek, Upper Division. 1-6 cr. U. Application of advanced principles of Greek in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Greek; 2.25 gpa; cons supervising faculty member.
499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

501 Readings in Classical Greek Prose: (Subtitled). 3 cr. U/G. Extensive reading in a major author, or in related authors, of ancient Greek prose; e.g., Herodotus, Thucydides, Plato, the Attic Orators, Aristotle, Lucian.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

502 Readings in Ancient Greek Poetry: (Subtitled). 3 cr. U/G. Extensive reading in a major author, or related authors, of ancient Greek poetry; e.g., Homer, the Greek lyric poets, the Attic tragedians, Aristophanes, Menander, Theocritus.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

699 Directed Reading. 1-3 cr. U. Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord.|Retakable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.
College of Health Sciences

HIA Health Information Admin
203 Human Life Cycle. 3 cr. U. Views of leading theorists and recent research in the field of human development will be presented with emphasis on biopsychosocial aspects of the five major stages of development from prenatal through senescence. Prereq: soph st or cons instr.

212 Drugs Used and Abused. 3 cr. U. An introduction to the mechanisms, actions, uses and abuses of selected licit and illicit drugs from a public health perspective. Prereq: soph st or cons instr.

220 Leading Healthcare Professionals. 3 cr. U. Introduction to effective healthcare leadership of self, others, and groups in complex healthcare settings. Emphasis on leader understanding own temperament and values and healthcare context. Prereq: none.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity. BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.


290 Selected Topics in Health Information Administration: (Subtitled). 1-3 cr. U. Content to be determined as instructional need arises. Retakeable for cr with change in topic. Prereq: none, except as specified for topic.

297 Study Abroad. (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable with change in topic. Prereq: acceptance to Study Abroad Prog.

307 Epidemiology for the Health Sciences. 3 cr. U. Introduction to the etiology and distribution of disease and risk factors associated with the determination of disease; applications of epidemiology to the health science professions. Prereq: HMS 270(P) or MthStat 215(P)

333 Health Organizations Professional Practice Standards. 2 cr. U. Overview of regulatory statutes, licensure
requirements, accreditation and other professional practice standards that affect health care organizations. Prereq: jr st in Hlth Sci or minor in HCA.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>361</td>
<td>Structure and Functions of Long-Term Care Facilities</td>
<td>3 cr.</td>
<td>U. Nursing home administrator's domains of practice, nursing facility management innovations, and the long-term care continuum through lectures and site visits. Prereq: HCA 260(P); or cons instr.</td>
</tr>
<tr>
<td>362</td>
<td>Legal and Regulatory Aspects of Long-Term Care Facilities</td>
<td>3 cr.</td>
<td>U. Legal and regulatory environment of the nursing facility. Reviews state and federal requirements and overviews the survey process designed to protect resident well-being. Prereq: HCA 311(C) &amp; 361(P); or cons instr.</td>
</tr>
<tr>
<td>411 (HIA 411)</td>
<td>Disease Classification Systems I</td>
<td>3 cr.</td>
<td>U. Disease classification systems with emphasis on hospital applications. Prereq: HCA 222(HIA 222)(P) or equiv; or cons instr.</td>
</tr>
<tr>
<td>415 (HIA 415)</td>
<td>Disease Classification Systems II</td>
<td>3 cr.</td>
<td>U. Disease classifications systems with emphasis on ambulatory and other nonhospital applications; case-mix methodologies. Prereq: HCA 222(HIA 222)(P) or equiv; or cons instr.</td>
</tr>
<tr>
<td>423 (HIA 423)</td>
<td>Health Information Administration in Specialized Healthcare Facilities</td>
<td>4 cr.</td>
<td>U. Study of health information systems in ambulatory, long-term, home health, and other non-hospital settings; site visits and site-specific projects. Prereq: sr st in HCA or cons instr.</td>
</tr>
<tr>
<td>430 (HIA 430)</td>
<td>Patient Registration Management</td>
<td>3 cr.</td>
<td>U. Prereq: none.</td>
</tr>
<tr>
<td>444</td>
<td>Introduction to Text Retrieval and Its Applications in Biomedicine</td>
<td>3 cr.</td>
<td>U/G. Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods. Jointly offered with &amp; counts as repeat of CompSci 444, CompSci 744, &amp; HCA 744. Prereq: jr st; CompSci 351(P) or HCA 442(P).</td>
</tr>
<tr>
<td>450</td>
<td>Healthcare Quality Management</td>
<td>3 cr.</td>
<td>U. Theory and development of quality assessment programs in healthcare; involvement of governing board, administration, medical staff, includes review of risk and utilization management programs. Prereq: C L Sci 301-305(P); HMS 270(P) or MthStat 215(P).</td>
</tr>
<tr>
<td>480</td>
<td>Competency-Based Internship in Long-Term Care Facilities</td>
<td>3 cr.</td>
<td>U. A supervised clinical practicum serving as the capstone fieldwork experience for HCA majors obtaining a sub-major in long-term care administration. Prereq: HCA 362(C) &amp; cons instr.</td>
</tr>
<tr>
<td>497</td>
<td>Study Abroad. (Subtitled)</td>
<td>1-12 cr.</td>
<td>U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in</td>
</tr>
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</table>

520 Clinical Practicum. 3 cr. U. Assignments to local health information centers for practical experience; weekly meetings and projects also required. Prereq: sr st in HCA.


537 (HCA 337) Introduction to Healthcare Databases and Technologies. 3 cr. U/G. Introduction to origins, sources and content of healthcare data; technologies used to manage and control healthcare databases. Prereq: jr st in Hlth Sci or minor in HCA or HCI cert or cons instr; HS 224 (HCA 224)(P) or L&I Sci 110(P) or Bus Adm 230(P).

540 Health Information Professional Practice. 4 cr. U. Four-week professional practice working with and under supervision of an information manager. Pre-practice meetings and post-practice seminar. Prereq: sr st in HCA, HCA 520 (HIA 520)(P).

541 (HCA 441) Healthcare Information Systems Analysis and Design. 3 cr. U/G. Overview of health facility computerized information systems. Information systems theory, systems analysis, and implementation of computer systems from a managerial/planning perspective. Prereq: jr st; HCA 337(P).


580 Health Care Administration Internship. 3 cr. U. Internship experience with administrators in health care agencies (e.g., hospitals, rehabilitation facilities, nursing homes). May be retaken to max of 9 cr. Prereq: sr st in HCA prog & cons internship coordinator.

590 Topics in Health Sciences. 1-3 cr. U. Topics of current interest within the field of health sciences. The theme for each subscription period's offering will be posted.

590 Topics in Health Sciences: (Subtitled). 1-3 cr. U/G. Topics of current interest within the field of health sciences. The theme for each semester's offering will be posted. May be repeated with change in topic to max of 9 cr for grad students. Prereq: jr st; cons instr for grad cr.


This course information produced at 01:00 on 07/30/2015.
HEBR ST Hebrew Studies

100 Introduction to Judaism. 3 cr. U. Laws, beliefs, rituals, and holidays of the Jewish religion and people; development of Judaism.|No cr for students w/cr in Hebr St 238 w/same topic. Prereq: none.

101 First Semester Hebrew. 4 cr. U. For students with no previous knowledge of Hebrew. Elements of reading and grammar, vocabulary building, and fundamental principles of the language. Reading in simple narrative Hebrew prose. Language laboratory required.|Not open to native speakers of Hebrew. May not be taken for cr by students who have completed Hebr St 51 or 52. Prereq: none.

102 Second Semester Hebrew. 4 cr. U. Continuation of Hebr St 101. Language laboratory required.|Not open to native speakers of Hebrew. No cr for students who have cr in Hebr St 53 & 54. Prereq: Hebr St 101(P) or 51(P) & 52(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/ change in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

201 Third-Semester Hebrew. 4 cr. U. Advanced grammar and idiom. Easy selections from the Bible and later Hebrew literature.|Not open to native speakers of Hebrew. Prereq: Hebr St 102(P) or 54(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).


230 Bible Stories. 3 cr. U. Introduction to the central stories of the Hebrew Bible with particular attention to their
<table>
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<th>Course Code</th>
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<th>Credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>235</td>
<td>The Dead Sea Scrolls and the Bible</td>
<td>3 cr.</td>
<td>U.</td>
<td>Literature and theology of the 'Dead Sea Scrolls,' emphasizing their relationship to the Bible. Their importance for studying the history of early Judaism and Christianity.</td>
</tr>
<tr>
<td>238</td>
<td>Topics in Hebrew/Jewish Literature, Art, and Culture: (Subtitled)</td>
<td>3 cr.</td>
<td>U.</td>
<td>Introduction to various aspects of Hebrew/Jewish literature, art, and culture; possible topics include biblical literature, Israeli film, children's literature, drama, Israeli culture, Holocaust literature.</td>
</tr>
<tr>
<td>234</td>
<td>Studies in Hebrew Culture: (Subtitled)</td>
<td>3 cr.</td>
<td>U.</td>
<td>Various thematic approaches to Hebrew culture.</td>
</tr>
<tr>
<td>236</td>
<td>Representing the Holocaust in Words and Images</td>
<td>3 cr.</td>
<td>U.</td>
<td>Holocaust literature and film; issues of representation and memory. Texts include memoirs, graphic novels, fiction, and documentaries.</td>
</tr>
<tr>
<td>239</td>
<td>Internship in Hebrew Studies, Lower Division</td>
<td>1-6 cr.</td>
<td>U.</td>
<td>Application of basic principles of Hebrew studies in a business, organizational, educational, political, or other appropriate setting.</td>
</tr>
<tr>
<td>247</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>U.</td>
<td>Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.</td>
</tr>
<tr>
<td>249</td>
<td>Ad Hoc: (Subtitled)</td>
<td>1-6 cr.</td>
<td>U.</td>
<td>Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.</td>
</tr>
<tr>
<td>250</td>
<td>Topics in Biblical Literature: (Subtitled)</td>
<td>3 cr.</td>
<td>U.</td>
<td>Analysis of genres or issues in biblical literature; topics may include wisdom literature, prophetic writings, Bible as literature, God in the Old Testament.</td>
</tr>
<tr>
<td>251</td>
<td>Women in the Bible</td>
<td>3 cr.</td>
<td>U.</td>
<td>Analyzes stories about women in the Old Testament from a literary, cultural and historical perspective; includes how these texts have influenced modern views of women.</td>
</tr>
<tr>
<td>268</td>
<td>Jewish and Christian Responses to the Holocaust</td>
<td>3 cr.</td>
<td>U.</td>
<td>Jewish and Christian answers to theological questions raised by the Holocaust, such as &quot;Where was God?&quot; Focus on interfaith dialogue and understanding.</td>
</tr>
<tr>
<td>275</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>U.</td>
<td>Designed to enable students studying language abroad to receive course credit at appropriate level.</td>
</tr>
<tr>
<td>278</td>
<td>Readings in Rabbinic Literature: (Subtitled)</td>
<td>3 cr.</td>
<td>U.</td>
<td>Analysis of a selected genre of rabbinic literature in its original language(s), including readings from the Targum, Midrash, or Mishna.</td>
</tr>
<tr>
<td>281</td>
<td>Internship in Hebrew Studies, Upper Division</td>
<td>1-6 cr.</td>
<td>U.</td>
<td>Application of advanced principles of Hebrew studies in a business, organizational, educational, political, or other appropriate setting.</td>
</tr>
</tbody>
</table>
on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Hebr St; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Independent Study. 1-3 cr. U. Advanced independent work under the supervision of a Hebr St faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Hebr St prog coord. Retakable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.
HIST History

This course information produced at 01:00 on 07/30/2015.

101 Western Civilization: Ancient World to 1500. 3 cr. U. A survey of major themes in the social, political, and cultural development of the western world from its ancient origins to 1500. Prereq: none.

102 Western Civilization: 1500 to the Present. 3 cr. U. A survey of major themes in the social, political, and cultural development of the western world from 1500 to the present. Prereq: none.

131 World History to 1500. 3 cr. U. Global perspective on the development of the civilizations of Europe, Africa, Asia, and the Americas from prehistoric times to the dawn of the modern era. Prereq: none.

132 World History Since 1500. 3 cr. U. Global perspective on the development and integration of the civilizations of the world from the age of European expansion to the present. Prereq: none.

141 (effective 09/02/2015) The Family and Sex Roles in the Past. 3 cr. U. Change in the structure and function of families and gender roles. Topics include demography, kinship and inheritance, child-rearing, birth control, feminism, and homosexuality. Prereq: none.

141 The Family and Sex Roles in the Past. 3 cr. U. Change in the structure and function of families and gender roles. Topics include demography, kinship and inheritance, child-rearing, birth control, feminism, and homosexuality. Prereq: none.

150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities through materials from literature, history, and the media, with attention to African-, Asian-, Hispanic-, and Native-American experiences. Cultures and Communities Prog course; req'd service learning component. Prereq: none.

151 American History: 1607 to 1877. 3 cr. U. Survey of American social, political and economic development to 1877. Prereq: none.

152 American History: 1877 to the Present. 3 cr. U. Survey of American social, political, diplomatic, and economic development, from 1877 to the present. Prereq: none.

175 East Asian Civilization to 1600. 3 cr. U. Survey of the culture, history, and institutions of China, Korea, and Japan from earliest times. Prereq: none.
176 East Asian Civilization Since 1600. 3 cr. U. Survey of the culture, history, and institutions of China, Korea, and Japan since 1600. Prereq: none.

180 Latin American Society and Culture. 3 cr. U. Lecture course designed to familiarize students with the broad parameters of Latin American history, emphasis on themes of continuity and change. No cr for students with cr in Hist 388, 389, or 390. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

200 Historical Roots of Contemporary Issues: (Subtitled). 3 cr. U. This course examines the historical dimensions and demonstrates the importance of historical thinking for the understanding of contemporary problems and crises. Retakable w/chg in topic. Prereq: none.

201 The Ancient World: The Near East and Greece. 3 cr. U. Mesopotamians, biblical Palestinians, Assyrians, Medes, Persians, and Greeks to 323 B.C. Not open for cr to students who have had any Hist courses numbered 121, 303, or 304. Prereq: none.

202 The Ancient World: The Roman Republic and Empire. 3 cr. U. Survey of the history of ancient Rome from its beginnings to the time of Constantine the Great. Not open for cr to students who have had any Hist courses numbered 122, 307 or 308. Prereq: none.

203 The History of Medieval Europe: The Early Middle Ages. 3 cr. U. Studies in the history of Europe and the Mediterranean world from the fourth to the tenth centuries. Prereq: none.

204 The History of Medieval Europe: The High Middle Ages. 3 cr. U. Studies in the history of Europe and the Mediterranean world from the eleventh to the fourteenth centuries. Prereq: none.


206 Europe and the Modern World: 1815 to the Present. 3 cr. U. Survey of the political, economic, social, and cultural history of modern western civilization. Not open for cr to students w/cr in Hist 374 or 375. Prereq: none.

210 The Twentieth Century: A Global History. 3 cr. U. War, revolution, colonialism in global perspective; role of science, communication, and technology; shifting concepts of gender, class, race, and authority; internationalization of ideas and commerce. Prereq: none.

229 History of Race, Science, and Medicine in the United States. 3 cr. U. Education and professionalization of minorities in science, medicine, and nursing; minorities as patients and scientific subjects; biographies of minority scientists; scientific theories of racial inferiority. Prereq: none.

235 English History to 1688. 3 cr. U. Celtic period, Roman occupation, the Anglo-Saxons, Christianization of England, Norman conquest, feudalism, medieval peasantry, Black Death, rise of the Tudors, Renaissance, Reformation,
English revolution.|Prereq: none.

236 Britain Since 1688: Rise and Decline of a Great Power. 3 cr. U. Examines change and continuities in British life from 1688 to the present against the backdrop of industrialization, imperial expansion, industrial decline, and decolonization.|Prereq: none.

239 Poland and its Neighbors, 1795-1914. 3 cr. U. The Polish lands and Central Europe in the 19th century, from the Napoleonic era to the First World War.|Prereq: none.

241 Women and Gender in Europe: 1350 to 1750. 3 cr. U. Social, economic, cultural, religious, and political aspects of the history of women from the Middle Ages to the Enlightenment.|Prereq: none.

242 Women and Gender in Europe: 1750 to the Present. 3 cr. U. Social, economic, cultural, religious and political aspects of the history of women and gender from the Enlightenment to the present.|Prereq: none.


244 History of Women in American Society. 3 cr. U. The changing, economic, social, and political roles of American women, their relationship to public and private life, and their evolving self-consciousness.|Not open to students who have taken Hist 423. Prereq: none.

246 Homosexuality in History. 3 cr. U. Survey of patterns and representations of male and female homosexuality in western history and culture from antiquity to the present.|Prereq: none.

246 (effective 09/02/2015) Homosexuality in History. 3 cr. U. Survey of patterns and representations of male and female homosexuality in western history and culture from antiquity to the present.|Prereq: none.

248 The First World War. 3 cr. U. Origins and course of what became the Great War. The peace settlements. Emphasis on economic and social change as well as military and diplomatic matters.|Prereq: none.

249 The Second World War in Europe. 3 cr. U. The origins and course of the war in Europe from 1939 to 1945. Emphasis on political and diplomatic aspects as well as military matters.|Prereq: none.

250 Topics in European History: (Subtitled). 3 cr. U. European historical topics of current importance.|Retakable w/chg in topic. Students may take any combination of Hist 250, 270 & 290 not to exceed 9 cr. Prereq: none.

262 North American Indian History to 1887. 3 cr. U. A survey of Native American history from aboriginal times to 1887. Emphasis will be placed on American policies and change within Indian societies.|AIS 262 & Hist 262 are jointly offered; they count as repeats of one another. Prereq: none.

263 North American Indian History Since 1887. 3 cr. U. A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century.|AIS 263 & Hist 263 are jointly offered; they count as repeats of one another. Prereq: none.

267 The History of Latinos in the United States. 3 cr. U. History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences.|Hist 267 & Latino 267 are jointly offered; they count as repeats of one another. Prereq: none.

268 History of the American West. 3 cr. U. The American frontier experience; Indian policy, expansion; fur trade; settlement; communications, mining frontier; cattle frontier, and the impact of westward expansion on the nation.|Prereq: none.
269 Asian Americans in Historical Perspective. 3 cr. U. The history of Asians in the United States from 1849 to the present emphasizing the Chinese, Japanese, Filipino, Korean, and southeast Asian experiences of immigration, discrimination, and assimilation in different regions in the United States.|Prereq: none.

270 Topics in American History: (Subtitled). 3 cr. U. American historical topics of current importance.|Retakable w/chg in topic. Students may take any combination of Hist 250, 270 & 290 not to exceed 9 cr. Prereq: none.

271 The 1960s in the United States: A Cultural History. 3 cr. U. Overview of social upheavals; how 1960s shaped racial and ethnic identities, youth culture, sexual mores, community activism, art and fashion, political values; decade's enduring influence.|Prereq: none.

272 The Blues: History and Culture. 3 cr. U. Influence of blues music on American cultural history; the blues as expression of African American experience.|Prereq: none.

274 Ancient Egyptian Civilization. 3 cr. U. Culture of Egypt, with particular attention to its literature reflecting social, political, and religious conditions; emphasis on Egyptian-Hebrew contacts during the second millennium.|Classic (Hebr St) 274 & Hist 274 are jointly offered; they count as repeats of one another. Prereq: none.

278 Islamic Civilization: The Formative Period, ca. 500-1258. 3 cr. U. The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.|Prereq: none.

280 Islamic Civilization: The Formative Period, ca. 500-1258. 3 cr. U. The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.|Prereq: none.

282 The Modern Middle East in the Nineteenth and Twentieth Centuries. 3 cr. U. The challenge of colonialisms--Ottoman, Portuguese, French and British--and the response of nationalisms-Arab, Turkish, Persian, and Zionist; also the Arab-Israeli conflict.|Prereq: none.

284 Buddhism Across Asia. 3 cr. U. History of Buddhism from the 5th century BCE to the present.|Prereq: none.


287 The Vietnam War. 3 cr. U. A political, social, and cultural history of the Vietnamese and American dimensions of the war in Vietnam.|Prereq: none.

289 Internship in History, Lower Division. 1-6 cr. U. Application of basic principles of history in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Hist; 2.50 gpa; writ cons supervising faculty member & dept chair.

290 Topics in Global History: (Subtitled). 3 cr. U. Global, comparative, and non-western historical topics of current importance.|Retakable w/chg in topic. Students may take any combination of Hist 250, 270, & 290 not to exceed 9 cr. Prereq: none.

293 Seminar on Historical Method: Theory and Approach. 3 cr. U. Systematic exploration of the varieties of historical thought and of common problems in writing history, including causation, generalization, objectivity, purpose and value of history.|Not open for cr to students w/cr in, and does not count as repeat of, Hist 291. Prereq: none.

294 Seminar on Historical Method: Research Techniques. 3 cr. U. The practical problems of historical research: question-framing, research design, use of sources, bibliography, archives and manuscript collections, quantification; evidence, verification, and exposition.|Prereq: none.

295 Historical Encounters: (Subtitled). 3 cr. U. Studies in history of contacts and conflicts between differing civilizations. European, Near Eastern, Asian, African, and American topics are treated in cross-cultural
### 296 UROP Apprenticeship. 1-3 cr. U.
Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

### 297 Study Abroad: (Subtitle).
1-12 cr. U. Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

### 299 Ad Hoc: (Subtitle).
1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

### 302 History of Christianity, East and West Since 1500. 3 cr. U/G.
Development of the institutional church; major church leaders, theological and doctrinal changes; worship, liturgy and arts of Christendom; Christianity and social change. Prereq: jr st; satisfaction of GER English Composition competency req.

### 303 A History of Greek Civilization: The Greek City-State. 3 cr. U/G.
Greek history from prehistoric times to the death of Alexander the Great. Prereq: jr st; satisfaction of English Composition competency req.

### 304 A History of Greek Civilization: The Age of Alexander the Great. 3 cr. U/G.
The Macedonian state to the death of Alexander the Great; the Hellenistic states. Prereq: jr st; completion of GER English Composition competency req.

### 307 A History of Rome: The Republic. 3 cr. U/G.
Roman history from the beginnings of the Roman state to the death of Julius Caesar. Prereq: jr st; satisfaction of English Composition competency req.

### 308 A History of Rome: The Empire. 3 cr. U/G.
Roman history from the death of Julius Caesar to the fall of the empire in the west. Prereq: jr st; satisfaction of English Composition competency req.

### 318 Medieval Civilization: The High Middle Ages. 3 cr. U/G.
The intellectual development of medieval Europe, from the twelfth century to the fourteenth century. Prereq: jr st; completion of GER English Composition competency req.

### 319 The Era of the Crusades. 3 cr. U/G.
A consideration of the relationships between western Europe and the East in the period of the Crusades. Prereq: jr st; satisfaction of English Composition competency req.

### 320 History of Medieval Warfare. 3 cr. U/G.
Evolution of warfare in the Middle Ages; technology, tactics, strategy, and interaction with politics and culture. Prereq: jr st; completion of GER English Composition competency req.

### 325 The Renaissance. 3 cr. U/G.
Culture and society in Europe from the fourteenth to the sixteenth century; early Italian Renaissance to Elizabethan England; the Age of Discovery. Prereq: jr st; satisfaction of English Composition competency req.

### 329 The Roman Catholic Church, 1500 to the Present. 3 cr. U/G.
History of the Catholic Church from the Renaissance to the present. Prereq: jr st; satisfaction of GER English Composition competency req.

### 330 The Papacy in History. 3 cr. U/G.
Examination of the papacy, the world's most visible and influential religious office, from its origins to the present. Not open to students w/cr in Hist 600 w/same topic. Prereq: jr st; satisfaction of GER English Composition competency req.

### 341 Imperial Russia. 3 cr. U/G.
Development of autocracy and expansion of Russia's multi-ethnic empire; Russian economic, political, and intellectual developments under the tsars; reform and revolution. Prereq: jr st; satisfaction of GER English Composition competency req.
343 Russia Since 1917. 3 cr. U/G. Russian cultural, social, and political history since the revolutions of 1917. Prereq: jr st; satisfaction of GER English Composition competency req.

345 The Modern Balkans: Nationalism, War, and Democracy. 3 cr. U/G. Fall of the Ottoman Empire; revolutionary movements; emergence of national states; socio-political and cultural developments; Second World War; socialist regimes; civil wars and democratic transitions. Prereq: jr st; completion of GER English Composition competency req.


348 Poland and Its Neighbors, 1945 to the Present. 3 cr. U/G. Developments in Poland, East Germany, Czechoslovakia, and Hungary since the Second World War. The origins, development, decline, and fall of communist rule in Central Europe. Prereq: jr st; satisfaction of GER English Composition competency req.

353 Ireland Since 1600: Colony to Independent State. 3 cr. U/G. Irish history from 1600 to the present. Topics include the famine, nationalism, and relationship with England. Prereq: jr st; satisfaction of GER English Composition competency req.

358 The Jews of Modern Europe: History and Culture. 3 cr. U/G. History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production. Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another. Prereq: jr st.

363 Germany: Hitler and the Nazi Dictatorship. 3 cr. U/G. Rise and fall of Third Reich; Weimar Republic and collapse; Hitler's conquest of power, national socialist state, World War II; catastrophe and reconstruction. Prereq: jr st; satisfaction of GER English Composition competency req.

364 The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45. 3 cr. U/G. The rise of Nazism; anti-Semitism; annihilation of Jews and other ethnic and religious minorities; Jewish responses and resistance; legacy of persecution. Not open for cr to students with Hist 295 'Historical Encounters: The Holocaust.' Prereq: jr st; satisfaction of English Composition competency req.

370 Topics in the History of Religious Thought: (Subtitled). 3 cr. U/G. Selected topics in the history of religious thought, for graduate and advanced undergraduate students. Intensive reading and student reports will be stressed. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of English Composition competency req.

371 Topics in European History: (Subtitled). 3 cr. U/G. Selected themes and issues in European history. Retakable w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

372 Topics in Global History: (Subtitled). 3 cr. U/G. Selected issues in global history. Retakable w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

373 (effective 09/02/2015) Topics in Gender and History: (Subtitled). 3 cr. U/G. Selected topics in the history of gender, family, and sexuality. Retakable w/chg in topic to 9 cr max. Prereq: jr st; satisfaction of English Composition competency req.


375 Contemporary European History, 1945 to the Present. 3 cr. U/G. The Cold War; the recovery of Europe;
student revolutions and spiritual crisis; economic stagnation; moves toward European unification; breakup of the Soviet bloc. Prereq: jr st; satisfaction of GER English Composition competency req.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
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<tr>
<td>376</td>
<td>History of Ancient China, Earliest Times to 220 A.D.</td>
<td>3</td>
<td>jr st</td>
<td>History of China through First Unification and Great Empire of Han Dynasty; attention to development of distinctive qualities of Chinese philosophy, politics, society, and material culture.</td>
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<tr>
<td>377</td>
<td>Modern China</td>
<td>3</td>
<td>jr st</td>
<td>China in the nineteenth and twentieth centuries, from the Opium Wars to the establishment of People's Republic in 1949. Major political, economic and social issues.</td>
</tr>
<tr>
<td>379</td>
<td>Introduction to Jewish History</td>
<td>3</td>
<td>jr st</td>
<td>Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era.</td>
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<tr>
<td>380</td>
<td>Buddhism: A Cultural History</td>
<td>3</td>
<td>jr st</td>
<td>Development of Buddhist culture in Asia and contemporary globalized world; intertwining themes of individual purification and Buddhist visions of just and unjust societies.</td>
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<tr>
<td>382</td>
<td>Southeast Asia: The Age of Imperialism and Revolution Since 1800</td>
<td>3</td>
<td>jr st</td>
<td>A survey of the region beginning with the European occupation of the mainland and ending with the Vietnam War.</td>
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<td>383</td>
<td>North Africa from the Arab Conquest to the Present</td>
<td>3</td>
<td>jr st</td>
<td>The process of Islamization, Arabization, and urbanization of North Africa from the seventh century to the present, including the Spanish-North African interrelationship.</td>
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<tr>
<td>386</td>
<td>Africa: The Age of Empires to 1880</td>
<td>3</td>
<td>jr st</td>
<td>Survey of the highlights of early African history; empires black and white; religion; slavery; material culture.</td>
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<td>387</td>
<td>Africa: Imperialism and Independence Since 1880</td>
<td>3</td>
<td>jr st</td>
<td>The phases of colonial relationships and the parties involved; conquest, pacification, and independence of African states.</td>
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<tr>
<td>392</td>
<td>The History of Southern Africa</td>
<td>3</td>
<td>jr st</td>
<td>Surveys the history of South Africa and Zimbabwe with special reference to the twentieth century, comparing their struggles for majority rule.</td>
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<tr>
<td>393</td>
<td>History of Mexico</td>
<td>3</td>
<td>jr st or cons instr</td>
<td>An upper-division survey course spanning all periods of Mexican history, with special emphasis on the historical origins and development of major contemporary issues.</td>
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<tr>
<td>394</td>
<td>History of Japan to 1600</td>
<td>3</td>
<td>jr st</td>
<td>Japanese political, economic, and social development, cultural change, and major historical figures, from ancient times to 1600.</td>
</tr>
</tbody>
</table>
395 History of Japan Since 1600. 3 cr. U/G. Japan's rise as modern nation-state and economic power; evolution of social, political, cultural institutions from establishment of Tokugawa shogunate through Meiji restoration to present.|Prereq: jr st; completion of GER English Composition competency req.

398 Honors Seminar: (Subtitled). 3H cr. U. Reading, discussion, and presentation of papers to help students acquire an understanding of important historical problems from a humanities perspective.|Retakable w/chg in topic to combined 9 cr max in Hist 398 & 399. Counts as repeat of History 270 & 404 w/similar topic. Prereq: soph st; Honors 200(P); cons Honors College dir.

399 Honors Seminar: (Subtitled). 3H cr. U. Readings, discussion, and presentation of papers to help students acquire an understanding of important historical problems from a social science perspective.|Retakable w/chg in topic to combined 9 cr max in Hist 398 & 399. Prereq: soph st; Honors 200(P); cons Honors College dir.

400 Topics in Latin American and Caribbean History: (Subtitled). 3 cr. U/G. Selected themes and issues in the history of South America, Central America, and the Caribbean Islands.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

401 Topics in Middle Eastern History: (Subtitled). 3 cr. U/G. Selected themes and issues in Middle Eastern history.|Retakable w/chg in topic to 9cr max. Prereq: jr st; completion of GER English Composition competency req.

402 Topics in Asian History: (Subtitled). 3 cr. U/G. Selected themes and issues in the history of Asia.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; completion of GER English Composition competency req.

403 American Origins, 1600-1750. 3 cr. U/G. The beginnings of plantation society in the South, colonist-Indian relations, Puritanism, Quakers, colonial riots and rebellions, the Great Awakening, Imperial system.|Prereq: jr st; satisfaction of GER English Composition competency req.


405 The Age of the American Revolution, 1750-1789. 3 cr. U/G. Background to revolution; British policy and American protest; political, social, diplomatic, and military phases of the War for Independence; Articles of Confederation; Constitution of 1787.|Prereq: jr st; satisfaction of GER English Composition competency req.

409 Causes of the Civil War, 1828-1861. 3 cr. U/G. Examination of the relationship between sectional conflict and political and social developments; the explanation of the causes and timing of the Civil War.|Prereq: jr st; satisfaction of GER English Composition competency req.

410 Civil War and Reconstruction: The United States, 1861-1877. 3 cr. U/G. The military conflict from Sumter to Appomattox; policies of Lincoln, Reconstruction and aftermath of slavery.|Prereq: jr st; satisfaction of GER English Composition competency req.

418 America in Prosperity, Depression and War, 1921-1945. 3 cr. U/G. The Twenties as a transition period; the Great Depression; Franklin D. Roosevelt and the New Deal; foreign policies and U.S. participation in World War II.|Prereq: jr st; satisfaction of GER English Composition competency req.

419 America Since 1945. 3 cr. U/G. Postwar America, including social and economic developments, Cold War rivalries, and the changing political scenes from the Truman years to the present.|Prereq: jr st; satisfaction of English Composition competency req.

430 American Constitutional Development, 1876 to the Present. 3 cr. U/G. Problems of government and the economy, civil rights and civil liberties in war and peace as reflected in controversies over meaning of the federal constitution.|Prereq: jr st; satisfaction of GER English composition competency req.


434 The United States as a World Power in the 20th Century. 3 cr. U/G. How the United States became involved in two world wars and a cold war, while spreading its interests and influence across the globe.|Prereq: jr st; satisfaction of GER English Composition competency req.

435 Ethnic America: To 1880. 3 cr. U/G. Survey of the conflict between cultural diversity and the melting pot, included are theories about and experiences of ethnic groups in America, particularly the bad west.|Prereq: jr st; satisfaction of GER English composition competency req.

436 Immigrant America Since 1880. 3 cr. U. Survey of the conflict between the ideas of cultural diversity and assimilation, stressing the differing reception and settlement of white and non-white immigrants.|Prereq: jr st; satisfaction of English Composition competency req.

439 The Italian-American Experience in the United States. 3 cr. U/G. Italian-American cultural history, including the arts, religion, entertainment, family relationships and discrimination encountered; Italian-American experience in the context of the global diaspora.|Prereq: jr st; completion of GER English Composition competency req.


446 African Americans Since the Civil War. 3 cr. U/G. The search for justice and equality, from emancipation in 1865 to the civil rights revolution of the 1960's and beyond.|Prereq: jr st; satisfaction of English Composition competency req.


449 Popular Culture in America, 1800 to the Present. 3 cr. U/G. Popular culture seen through artifacts and the mass media: popular music, newspapers, magazines, dime novels, film, comics, TV, radio, folk heroes, sports, and 'stars.'|Prereq: jr st; satisfaction of GER English Composition competency req.

450 Growth of Metropolitan Milwaukee. 3 cr. U/G. History of the city and county of Milwaukee and Milwaukee suburbs, emphasizing population patterns; government; economic change; social, cultural and educational institutions; and spatial relationships.|Prereq: jr st; satisfaction of GER English Composition competency req.

451 History of Wisconsin. 3 cr. U/G. Political, economic and social development of Wisconsin, especially since 1815, with attention to such major personalities as the La Follettes, Kohlers, Turner, Hoard, Wright, and Gale.|Prereq: jr st; satisfaction of GER English Composition competency req.

452 History of Religion in American Life to 1870. 3 cr. U/G. Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.|Prereq: jr st;
453 History of Religion in American Life Since 1870. 3 cr. U/G. Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.|Prereq: jr st; satisfaction of GER English Composition competency req.


456 The Human Side of History: American Biographies. 3 cr. U/G. The study of American history through biography, emphasizing a variety of figures who represent major historical issues, ideas, and movements.|Prereq: jr st; satisfaction of GER English Composition competency req.

460 The History of Poverty in America. 3 cr. U/G. Social welfare policies and programs (including evolution of social work profession), 1620-present, in light of major developments in American social and intellectual history.|Prereq: jr st; satisfaction of GER English Composition competency req.

463 History of the American City. 3 cr. U/G. Character of American urbanization and its social and political consequences; responses to 'urban problems' from the early nineteenth century to the present.|Prereq: jr st; satisfaction of GER English Composition competency req.

468 The American Feminist Movement. 3 cr. U/G. History of the American feminist movement from colonial times to the present.|Prereq: jr st; satisfaction of GER English Composition competency req.


469 Manhood in America. 3 cr. U/G. A gendered exploration of the history of masculinity in the United States; how various styles and functions of manhood changed over time.|Counts as repeat of Hist 373 w/topic 'Manhood in America.'|Prereq: jr st, satisfaction of GER English Composition competency req; or grad st.

473 History of Wisconsin Indians. 3 cr. U/G. History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.|AIS 473 & Hist 473 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

474 Topics in North American Indian History: (Subtitled). 3 cr. U/G. Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.|Retakable w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

475 American Indian History, Law, and Government. 3 cr. U/G. American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European Legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.|No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

489 Internship in History, Upper Division. 1-6 cr. U. Application of advanced principles of history in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; satisfaction of GER English Composition competency req; 300-level or above course in Hist; 2.50 gpa; writ cons supervising faculty member & dept chair.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework.|Retakable w/chg
in topic. Prereq: jr st; satisfaction of English Composition competency req; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req; add'l prereqs may be assigned to specific topic.


596 Maps as Historical Sources. 3 cr. U/G. Introduction to maps, both as historical artifacts and as instruments for reinterpreting historical realities. Prereq: jr st; completion of GER English Composition competency req.

597 Fields and Methods in Public History. 3 cr. U/G. Career opportunities for historians in historical agencies, focusing on the work and methods of archivists, museum curators, historic preservationists, oral historians, and administrators. Prereq: jr st; completion of GER English Composition competency req; cons coord of public hist.

599 Special Topics in History: (Subtitled). 3 cr. U. Directed readings and reports on topics selected by instructor; emphasis on development of skills in analysis and interpretation of documents and secondary works. Retakable w/chg in topic. Prereq: jr st; completion of GER English Composition competency req.

600 Seminar in History: (Subtitled). 3 cr. U. In-depth investigation of a period or theme in history. Emphasis on designing and writing a research paper based on primary and secondary sources. Retakable w/chg in topic with petition to department chair to 6 cr max. Prereq: sr st; satisfaction of GER English Composition & Math Skills competency reqs; Hist 288(P), 291(P), 293(P), 294(P), 594(P), 595(P), or 596(P); declared Hist major or Educ/Soc Studies-Broad Field Hist major.

681 Senior Thesis I. 3 cr. U. Senior research project for history majors. Prereq: sr st, satisfaction of GER English Composition competency req; Hist 288(P), 291(P), 293(P), 294(P), 594(P), 595(P), or 596(P); cons faculty thesis advisor & dept chair.

682 Senior Thesis II. 3 cr. U. Senior research project for history majors. Prereq: Hist 681(P); satisfaction of GER English Composition competency req.

699 Independent Reading: 1-6 cr. U. Advanced independent work under the supervision of a history faculty member. Students must submit study proposal. For more information, consult dept chair, www4.uwm.edu/letsci/history/undergrad/internships.cfm. Retakable w/chg in topic. Prereq: jr st; satisfaction of GER English Composition competency req; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.
200 Honors Seminar: The Shaping of the Modern Mind: (Subtitled). 3H cr. U. Introduction to honors work through seminar study of basic texts and problems in the development of modern civilization. Not open to students w/cr in Honors courses at 300-level or above. Retakable once w/chg in topic. Students may not elect cr/no cr option. Prereq: grade of B- or better in English 102(P) or score at level 4 on EPT; cons Honors College dir.

297 Study Abroad: (Subtitled). 1H-9H cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog & cons Honors College dir.

299 Ad Hoc: (Subtitled). 1H-6H cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

310 Introduction to Clinical Medicine for Premedical Students. 1H cr. U. Through both lecture/discussion and experience, students will explore various components of the medical profession in a clinical setting. Prereq: soph st; Bio Sci 150 or Chem 102; cons both Honors College dir & premedical advisor, L&S.

350 (680) Honors Seminar in the Humanities: (Subtitled). 3H cr. U. Seminar on interdisciplinary topics or on the broader implications of a faculty member's research. Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted. Prereq: soph st; Honors 200(P); cons Honors College dir.

351 (683) University Honors Seminar in the Social Sciences: (Subtitled). 3H cr. U. Seminar on inter-disciplinary topics or on the broader implications of a faculty member's research. Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted. Prereq: soph st; Honors 200 (P); cons Honors College Dir.

352 (682) Honors Seminar in the Natural Sciences: (Subtitled). 3H cr. U. Seminar on interdisciplinary topics or on the broader implications of a faculty member's research. Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted. Prereq: soph st; Honors 200(P); cons Honors College dir.

380 Honors Seminar in the Arts: (Subtitled). 3H cr. U. Selected topics in the theory and practice of creative and expressive arts. Taught by practicing artists. Retakable once w/chg in topic. Prereq: soph st; Honors 200(P); cons Honors College dir.
497 Study Abroad: (Subtitled). 1H-9H cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog; cons Honors College dir.

499 Ad Hoc: 1H-6H cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

685 Honors Tutorial. 1H-3H cr. U. Advanced study in interdisciplinary topics. Retakable to max of 6 cr. Prereq: jr st in Honors College, cons instr & Honors College dir.

686 Research in Honors. 3H or 6H cr. U. Student assists with a faculty member's current research, then designs and completes original major research paper under the faculty member's supervision. Retakable once to 6H cr max. Prereq: jr st in Honors College, 9 cr in Honors, cons instr & Honors College dir.

687 Senior Honors Project. 3H-6H cr. U. Performance, exhibit, musical composition, or technical/professional project completed under supervision of faculty member. For students in majors in which a thesis is not appropriate. Not open for cr or enroll to students with Honors 689(ER). Retakable once to 6H cr max. Prereq: sr st in Honors College, cons instr & Honors College dir.

689 Senior Honors Thesis. 3H-6H cr. U. Independent research project under faculty supervision. Honors with Distinction awarded for successful completion of thesis. Not open for cr or enroll to students with Honors 687(ER). Retakable once to 6H cr max. Prereq: sr st in Honors College; cons instr & Honors College dir.
190 Topics Course in Physical Activity: 1-3 cr. U. Introductory level topics of current interest in health and physical activity. Special course fees may be required depending on topic. Counts as repeat of Spt&Rec 290 & Kin(HMS) 290 with same topic. May be retaken with change of topic. Prereq: none, except as required for specific topic.

200 Introduction to Kinesiology. 3 cr. U. Introduction to the discipline of kinesiology and its subdisciplines of exercise physiology, motor behavior, biomechanics, and psychology and sociology of physical activity. Prereq: none.

201 Field Experience in Kinesiology. 1 cr. U. Lecture/discussion/site visitation exploring the broad field of Kinesiology and typical service delivery systems, e.g., campus, community, commercial, industrial and clinical. Counts as repeat of Kin(HMS) 210. Prereq: Kin(HMS) 202(C).

202 Field Work in Kinesiology. 1 cr. U. Practical, supervised, service-learning in the field of kinesiology. Counts as repeat of Kin(HMS) 210. Prereq: Kin(HMS) 201(C).

211 First Aid and Cardiopulmonary Resuscitation. 1 cr. U. CPR for adults, children, and infants; AED; and First Aid. Prereq: none.

212 Fieldwork in Athletic Training. 1 cr. U. On-site observation of the athletic training profession. Students will rotate through different on-campus sites. Prereq: Kin(HMS) 310(C).

216 Organization and Administration of Athletic Training. 3 cr. U. Delivery of athletic training services in various settings. Topics include program, personnel, information management, budgeting, documentation, insurance, legal considerations and current topics. Prereq: admitted to athletic training major; Kin(HMS) 316(P); Kin(HMS) 410(C) & Kin(HMS) 416(C); or cons instr.

230 Health Aspects of Exercise and Nutrition. 3 cr. U. Examines physical fitness and proper nutrition as lifestyle choices in maintaining optimal health and minimizing health risks. Not open to students with credit in Kin(HMS) 330, 530, 532, or 536. Prereq: none.

241 Why We Eat What We Eat: An Ecological Approach. 3 cr. U. Examination of food choice and eating behavior using a multilevel, social ecological perspective. Nutrition and health implications will be discussed. Prereq: none.
245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity. BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.

255 Women in Sport and Physical Activity. 3 cr. U. Introduction theory and research on female participation in sport and physical activity. Prereq: soph st or cons instr.

260 Introduction to Complementary and Alternative Medicine. 3 cr. U. Introduction to the predominant complementary and alternative health care traditions and therapies used today. BMS(C L Sci) 260 & Kin(HMS) 260 are jointly offered; they count as repeats of one another. Counts as repeat of BMS 260X. Prereq: none.

270 Statistics in the Health Professions: Theory and Practice. 3 cr. U. Overview of statistical theory and practical application for health professionals. Includes problem solving strategies, descriptive and inferential techniques, and critical evaluation of research design. Prereq: Math placement test score of 30 or math proficiency or a C grade or better in Math 105(P).

289 Seminar in Athletic Training. 0 cr. U. Exposure to peer presentations, guest lectures on current topics, current literature updates/discussion, and program information updates. Must be taken by student in the ATEP each sem of prog. Fee for 1 cr assessed. Prereq: acceptance into Athletic Training prog.

290 Special Topics in Human Movement Sciences: (Subtitled). 1-3 cr. U. Topics of current interest in kinesiology, health, and fitness. Special course fees may be required depending on course. May be retaken with change of topic. Prereq: specified in semester Schedule whenever required for a topic.

296 UROP Research Study: (Subtitled). 1-3 cr. U. Undergraduate research participation in a project developed with a supervising faculty member. One credit for 45 hours research. Retakeable to 9 cr max in any combination of UROP Research Study courses. Prereq: Acceptance to UROP prior or conc reg in UROP sem; cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specifically prepared program course work. Retakeable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

298 Independent Projects. 1-3 cr. U. Designed for individual and small group research projects under faculty supervision. Prereq: writ cons instr.

299 Independent Reading. 1-3 cr. U. Designed for individual and small groups in special study. Meetings/nature of study to be arranged with staff/faculty chosen to supervise. Prereq: cons instr.

310 Responding to Emergencies. 1 cr. U. Focus on the development of skills necessary for professionals to act as 'first responders' in providing emergency medical care. Credit/No Credit only. Prereq: Kin(HMS) 212(C).

311 CPR/AED Recertification. 1 cr. U. CPR/AED recertification and review of basic First Aid. Prereq: Kin(HMS) 211 or CPR & standard first aid certification.

312 Introduction to Prevention, Recognition, and Treatment of Athletic Injuries. 3 cr. U. Introduction to athletic training principles and techniques necessary for the prevention, recognition, care, and rehabilitation of athletic injuries. Prereq: enrolled in ATEP Program, Kin(HMS) 310(P); or cons instr.

314 Recognition and Evaluation of Injuries: Lower Extremity. 3 cr. U. Techniques/knowledge necessary to perform examination, treatment, prevention, and rehabilitation of sport-related injuries and illnesses of the lower extremity and associated areas. Prereq: admis to athletic training major; Kin(HMS) 413(C), & 416(C); or cons instr.

315 Recognition and Evaluation of Injuries: Upper Extremity. 3 cr. U. Techniques/knowledge necessary to perform
examination, treatment, prevention, and rehabilitation of sport-related injuries and illnesses of the upper extremity and associated areas.|Prereq: admis to athletic training major; Kin(HMS) 413(P), & 416(C); or cons instr.

**316 Recognition and Evaluation of Athletic Injuries: Head, Neck, and Trunk. 3 cr. U.** Techniques/knowledge necessary to perform examination, treatment, prevention, and rehabilitation of sport-related injuries and illnesses of the head, neck, and torso.|Prereq: admis to athletic training major; Kin(HMS) 315(P), 414(C) & 416(C); or cons instr.

**320 Biomechanics. 3 cr. U.** Application of physical laws and mechanical principles to human movement.|Not open to students w/cr in Kin (HMS) 520. Prereq: Admis to KIN major or Ath Trng major; Bio Sci 202(P); Physics 120(P) with a 'C' or greater; Math 105(P) or 211(P) or 231(P) with a 'C' or greater or cons instr.

**325 Anatomical Kinesiology. 3 cr. U.** Anatomical analysis of the human body including joint actions, anatomical, muscular, and neuromuscular control aspects necessary for movement.|Prereq: admis to Kin major, Ath Trng major or OT prog. Bio Sci 202(P) & 203(C) or cons instr.

**330 Exercise Physiology. 4 cr. U.** Study of the physiological responses to exercise and the adaptations to physical training.|Not open to students with cr in Kin (HMS) 530, 532, or 536. Prereq: admis to Kin major or Ath Trng major; Bio Sci 203(P); Chem 100(P), 102(P), or 104(P) or cons instr.

**336 Principles of Strength and Conditioning. 3 cr. U.** Basic principles necessary to understand the effects of exercise and conditioning on human physiology. Exercise techniques and measures used to assess performance outcome.|Counts as repeat of Kin(HMS) 335 & 337. Prereq: Kin(HMS) 320(R), 330(P); or cons instr.

**350 Psychological Aspects of Sport and Exercise. 3 cr. U.** Examines relationships between psychological function and participation in sport and exercise. Topics include motivation, stress, group dynamics, and performance enhancement.|Not open to students with credit in Kin(HMS) 550, 551, or 552. Prereq: Psych 101(P); Kinesiology majors must have completed Kin(HMS) 270(P) or cons instr.

**351 Sociological Aspects of Health and Human Movement. 3 cr. U.** Introduction to sociology of physical activity. Examination of diversity and social inequality as they relate to health and physical activity.|Not open to students with credit in Kin(HMS) 570. Prereq: Sociol 101(P); Kinesiology major must have completed Kin(HMS) 270(P) or cons instr.

**365 Health Aspects of Mind and Body Practices. 3 cr. U.** Exploration of the scientific research available on the effectiveness of common mind and body practices and the mechanisms through which these practices affect health.|Prereq: Kin 260(P) or BMS 260(P) or equiv.

**368 Study of Intervention Strategies in Complementary and Alternative Medicine. 3 cr. U.** Examination of the efficacy of commonly used strategies and therapies considered to be Complementary and Alternative Medicine.|Prereq: C L Sci 260(P) or Kin(HMS) 260(P); 365(R).

**400 Ethics and Values in the Health and Fitness Professions. 3 cr. U.** Exploration of morality and ethics and their importance in the allied health professions.|Prereq: none.

**410 Medical Aspects of Illness Management. 3 cr. U.** Knowledge and techniques used in identification and management of common medical conditions and illnesses in physically active populations.|Prereq: admis to Athletic Training major; Kin(HMS) 316(P), Kin(HMS) 216(C), & Kin(HMS) 416(C), or cons instr.

**411 Design and Analysis of Adult Fitness. 3 cr. U/G.** Selected methods and techniques for assessing physical fitness condition in normal healthy adults. Includes guidelines for graded exercise testing and exercise prescription.|Prereq: jr st; Kin(HMS) 330(P).
412 Foundations of Injury Prevention & Performance. 3 cr. U. The foundational knowledge, skills, and science that inform injury prevention, rehabilitation, and performance in sport and physical activity. [Counts as repeat of Kin(HMS) 290 w/same topic. Prereq: Admis to athletic training prog; Kin(HMS) 315(P), 320(P), & 416(C); or cons instr.]

413 Therapeutic Modalities in Athletic Training. 3 cr. U. Introduction to tissue healing, pain control, indications, contraindications, protocols, and the body's responses to various therapeutic modalities. [Prereq: admis to athletic training major; Kin(HMS) 314(C), & 416(C); or cons instr.]

414 Therapeutic Exercise and Rehabilitation Techniques in Athletic Training. 3 cr. U. Introduction to the theory and practical aspects of therapeutic exercise and rehabilitation techniques used in the care of musculo-skeletal injuries. [Prereq: admis to athletic training prog; Kin(HMS) 412(P) & 416(C); or cons instr.]

416 Competencies in Athletic Training. 2 cr. U. Practice, testing, and practical field application of educational competencies and clinical proficiencies in athletic training. [May be retaken to 10 cr max. Prereq: acceptance into student Athletic Training prog.]

430 Exercise Testing for Fitness Assessment and Exercise Prescription. 3 cr. U. Methods for assessing physical fitness in various populations, guidelines for graded exercise testing and exercise prescription. integrates lecture material with laboratory experience. [Prereq: jr st; Kin(HMS) 330(P) or cons instr; Kin(HMS) 211(P) or current CPR/AED cert; Kin(HMS) 350(P).]

460 Motor Development Across the Lifespan. 3 cr. U. Introduction to gross motor behavior development through the lifespan (neo-natal to senior adult). Growth, maturation, environmental influences, and developmental theories. [Prereq: admis to Kin major or Ath Trng major; Kin (HMS) 320(P), 330(C), 350(P) & 351(C) or cons instr.]

461 Principles of Motor Learning. 3 cr. U. An overview of the principles of motor skill acquisition emphasizing variables related to the learner and the learning environment. [Not open to students with cr in Kin (HMS) 561. Prereq: admis to Kin major or Ath Trng major; Psych 101(P); Kin (HMS) 270(P) & 320(P) or cons instr.]

480 Organization and Administration in the Exercise and Fitness Industry. 3 cr. U. Study of the delivery of exercise services in relationship to organization and administration of programs with emphasis on promotions, budget, supervision, equipment and facilities. [Prereq: jr st; Kin(HMS) 200(P); 320(P); 330(P); 350(P); or cons instr.]

481 Program Development and Evaluation in the Exercise and Fitness Industry. 3 cr. U. Study of systematic program design and evaluation including systems approach, evaluation models, problem solving by objectives, management by objectives and accountability. [Prereq: jr st; Kin(HMS) 270(P); 320(P); 330(P); 350(P); 351(R); 430(R); 480(P); 460(C); 461(R); or cons instr.]

488 Professional Preparation Seminar. 1 cr. U. Seminar lecture/discussion to prepare students for internships and other professional opportunities. Topics include goal setting, resume-writing, site selection, interviewing techniques, and professional development. [Prereq: sr st; admis to KIN major; or cons instr.]

489 Kinesiology Internship and Seminar. 3-14 cr. U. Supervisory/clinical/research assignment in approved field instruction setting; seminar to monitor and assist with professional progress. [May be retaken to max of 14 cr. Not open for cr to students with cr in Spt&Rec 489(ER). Prereq: sr st, Kin(HMS) 488(P), all undergrad coursework completed; or cons instr.]

497 Study Abroad: 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. [Retakeable w/chg in topic. Prereq: acceptance for Study Abroad Prog.]

520 Neuromechanics Research Methods. 3 cr. U/G. Introduction to biomechanics and motor behavior experimental methods and instrumentation. Emphasis on understanding the research literature and research process, from study
521 Pathoetiology of Musculoskeletal Injury. 3 cr. U/G. Examination of musculoskeletal injury etiology, tissue biomechanics, and neuromuscular rehabilitation. Counts as repeat of Kin(HMS) 590 with similar title. Prereq: jr st; grade of C or better in Kin(HMS) 320(P); or grad st or cons instr.

522 Qualitative Analysis of Human Movement. 3 cr. U/G. Exploration of systematic qualitative analysis of human movement focusing on detecting and correcting faults in technique. Counts as repeat of Kin(HMS) 590 with same title. Prereq: jr st; grade of C or better in Kin(HMS) 320(P); or grad st or cons instr.

525 Human Gross Anatomy. 6 cr. U/G. A comprehensive consideration of the human anatomy including both neuro-musculoskeletal components and internal organ systems. Prereq: grad st; good standing in DPT prog or cons instr.

526 Introduction to Physical Therapy Practice and Examination Techniques. 3 cr. U/G. Students will learn roles, professional behavior expectations, and patient examination techniques. Prereq: grad st; good standing in DPT prog or cons instr.

527 Kinesiology & Biomechanics of Normal & Abnormal Movement. 4 cr. U/G. Principles & theories of the biomechanics of human motion presented to develop analytical skills to assess normal & abnormal movement. Prereq: DPT student in good standing or grad st & cons instr; grad level Human Gross Anatomy w/lab, 8 cr undergrad Physics.

530 Advanced Exercise Physiology. 3 cr. U/G. Advanced study of the physiological responses to exercise and the adaptations to physical training. Prereq: jr st; grade of C or better in Kin(HMS) 330(P); Kinesiology major or intended major; or grad st.

532 Electrocardiography Interpretation. 3 cr. U/G. In depth study of the 12 lead EKG and selected cardiovascular medications encountered in preventative and rehabilitative exercise programs. Counts as repeat of Kin 590(HMS 590) with similar title. Prereq: jr st; grade of C or better in Kin(HMS) 330(P); 430(R); or grad st or cons instr.

536 Physiological Regulation in Exertion & Disease. 2 cr. U/G. Overview of the physiological basis of acti

540 Introduction to Physical Therapy Practice. 2 cr. U/G. The multiple roles of the physical therapist as a professional. Prereq: grad st; good standing in DPT prog or cons instr

541 Clinical Foundations of the Physical Therapy Examination. 5 cr. U/G. Instruction in the techniques of examining patients/clients. Prereq: grad st; good standing in DPT prog.

542 Physical Agents. 3 cr. U/G. The physiological basis, scientific rationale for, and clinical application of thermal, electrophysiology/ electrotherapy and electromagnetic physical agents. Prereq: grad st; good standing in DPT prog or cons instr.

550 Psychological Aspects of Human Movement. 3 cr. U/G. Study of the relationships between psychological factors and human physical activity. Introduction to research relevant to sport and exercise psychology. Prereq: jr st; must have obtained a grade of C or better in Kin(HMS) 350(P) or cons instr.

551 Psychology of Injury/Illness/Disease: Implications/Strategies for Rehab. 3 cr. U/G. Explores the psychological aspects of health enhancement, disease prevention, and rehabilitation as well as the integration of behavioral and biomedical sciences in treating illness. May be used by undergrads to repeat Kin(HMS) 590 with same title. Prereq: Psych 101(P).

552 Psychology of Personal Excellence. 3 cr. U/G. Research on elite athletes, performing artists, and corporate executives is used to discuss characteristics of peak performance and identify strategies to facilitate personal
excellence.|Counts as repeat of Kin(HMS) 590 w/same topic. Prereq: jr st, grade of C or better in Kin(HMS) 350(P); or grad st or cons instr.

553 Medical Physiology. 4 cr. U/G. Physiological principles related to rehabilitation in physical therapy practice setting and interaction of physiological systems during normal activities and after injury or disease.|Prereq: grad st; good standing in DPT prog or cons instr

555 Exercise Psychology. 3 cr. U/G. Psychological antecedents and consequences of physical activity in relation to mental health and public health.|Counts as repeat of Kin(HMS) 590 with same topic. Prereq: jr st; Grade C or better in Kin(HMS) 350(P) or cons instr.

556 Multilevel Approaches to Changing Physical Activity and Eating Behaviors. 3 cr. U/G. An introduction to key theoretical and conceptual frameworks for understanding health-related behavior and evidence-based practical approaches for promoting behavior change.|Counts as repeat of Kin 590 w/same topic. Prereq: Admis to Kin major or Ath Trng major or Nutr major; Grade C or better in Kin 350(P); or grad st or cons instr.

561 Neuromechanics of Voluntary Movement. 3 cr. U/G. An introduction to the major theoretical and empirical perspectives used to examine how the nervous system and musculoskeletal system work cooperatively to produce human movement.|Prereq: jr st; a grade of C or better in Kin(HMS) 461(P) or cons instr.

565 Motor Behavior. 2 cr. U/G. The theoretical & research evidence basis for normal & disordered movement via motor control, motor learning, & motor development literature.|Prereq: grad st; good standing in DPT prog

566 Functional Neuroanatomy. 3 cr. U/G. The anatomical basis of neuroscience in physical therapy.|Prereq: grad st; good standing in DPT prog or cons instr

570 Sociological Aspects of Physical Activity. 3 cr. U/G. Relationships between sociological factors and human physical activity. Introduction to research relevant to the sociology of sport and other forms of physical activity.|Prereq: jr st; must have obtained a grade of C or better in Kin(HMS)(P) or cons instr.

573 Body Image: Influences and Health-Related Implications. 3 cr. U/G. In-depth examination of the multidimensional body image construct: body image development, assessment, and modification; impact on health and behavior; body image in special populations.|Counts as repeat of Kin 590 with same topic. Prereq: jr st; Psych 101(P).

574 Obesity and Weight Management. 3 cr. U/G. Examination of the epidemiology of obesity, genetic and environmental contributors, body weight regulation, health and psychosocial consequences, and approaches to assessment, prevention, and treatment.|Counts as repeat of Kin 590 with same topic. Prereq: jr st; grade of C or better in BMS 232(P) or Nutr 235(P).

575 The Social Construction of Obesity. 3 cr. U/G. Examines how obesity is socially constructed and how it shapes conceptions of fitness and physical activity.|Counts as repeat of HMS 590 with same topic. Prereq: jr st; grade of C or better in Kin(HMS) 351(P); or cons instr.

590 Current Topics in Human Kinetics: (Subtitled). 1-3 cr. U/G. The specific topic will be announced in the Schedule of Classes each time the course is offered.|May be repeated to max of 9 cr. Prereq: jr st, cons instr for grad cr.

635 Pathophysiology. 2 cr. U/G. The general inflammatory and specific pathologies of the various organ systems.|Prereq: grad st; good standing in DPT prog or cons instr

640 Scientific Principles of Interventions. 5 cr. U/G. The basic therapeutic interventions used to treat impairments and functional limitations in the different biological systems that lead to movement dysfunction.|Prereq: grad st; good standing in DPT prog; graduate level Human Gross Anatomy course with lab; Anatomy/physiology, physics, 8 cr each with labs.
641 Cardiopulmonary Evaluation & Treatment. 3 cr. U/G. The normal and abnormal structure and function of the cardiovascular, pulmonary and lymphatic systems with emphasis on medical and other therapeutic strategies.[Prereq: grad st; good standing in DPT prog or cons instr]

642 Professionalism and Ethos of Care. 3 cr. U/G. The ethics of professional practice, fiduciary relationships, rights, duties associated with the patient/therapist relationship, and the role character plays in ethical decision-making.[Prereq: grad st; good standing in DPT prog]

680 Clinical Fieldwork I. 1 cr. U/G. The student will be assigned to a clinically based learning experience with an emphasis on practicing recently learned clinical skills on a patient population.[Prereq: grad st; good standing in DPT prog or cons instr]

699 Physical Therapy Clinical Internship Elective. 1-3 cr. U/G. Clinical experience with practice skill acquisition, decision making, and ethical professional behaviors consistent with ethical and legal PT practice.[Contact hours determined by instructor to include clinical facility work as well as any needed didactic instruction. May not be retaken for cr. Prereq: DPT student in good st & cons instr.]

This course information produced at 01:00 on 07/30/2015.
101 Fundamentals of Graphics. 3 cr. U. Orthogonal projection; descriptive geometry elements using cutting plane, auxiliary view and revolution methods; pictorials; 2-D, 2 1/2-D, and 3-D computer-aided-design/drafting (CADD) modeling methods.|Prereq: math placement test code of 20 or Math 105(C).

111 Introduction to Engineering. 3 cr. U. Introduction to Engineering Disciplines, problem solving methods, teamwork, technical communication, professionalism, and ethics.|Counts as repeat of Ind Eng 210. Prereq: Math 116(C).


210 Introduction to Design Techniques. 3 cr. U. Systems philosophy of problem solving and design; techniques of gathering information, defining problems, creativity, and decision making. A semester project includes feasibility, development, and detail design phases.|Prereq: soph st.

299 Independent Reading and Work. 1-3 cr. U. Credit hours to be arranged between student and staff on an individual basis.|Prereq: cons instr.

350 Manufacturing Processes. 3 cr. U. Broad study of processes and equipment used in modern production. Design considerations, economic factors, automation, metals and plastics processing, fabrication of electronic materials.|Prereq: MatlEng 201(P).

360 Engineering Economic Analysis. 3 cr. U. Concept of time value of money. Economical evaluation of alternate projects and replacement policies using methods such as present worth, rate of return, and annual cost. Engineering investment decision analysis.|Prereq: jr st.

370 Introduction to Operations Analysis. 3 cr. U. Functions and philosophies of the contemporary engineer in the production/service environment as it is planned, designed, manufactured/delivered, maintained, controlled and distributed.|Prereq: Math 233(P)

390 Senior Thesis. 1-3 cr. U. Independent research under the direction of a faculty member; submission of a written
thesis is required. Need not all be taken during the same semester. Prereq: sr st & cons instr.

405 Product Realization. 3 cr. U/G. This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process. Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Counts as repeat of one another. Prereq: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.


467 Introductory Statistics for Physical Sciences and Engineering Students. 3 cr. U/G. Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing; parameter estimation; regression analysis. Not open for cr for Math majors or students with cr in MthStat 362 or 465. IndEng 467 and MthStat 467 are jointly offered & count as repeats of one another. Prereq: jr st; Math 233(P).

470 Methods Engineering. 3 cr. U/G. Use of production machine for producing a simple product. Study of production sequence, material flow, plant layout; time and motion; and the economics of materials and methods of fabrication. Redesign of the product and the methods of production to minimize total costs within physical, social and aesthetic constraints. Prereq: jr st; Ind Eng 467(P).

475 Simulation Methodology. 3 cr. U/G. Fundamentals of discrete simulation. Random number and random variable generation for simulation modeling and analysis using simulation software. Prereq: Ind Eng 467(P), CompSci 201(C).

485 Senior Design Project. 3 cr. U. Capstone design projects involving design of a production/service system. Progress reports, final report, and presentation. Prereq: sr st, Ind Eng 370(P), 455(P), 465(C), 470(C), 475(P), 571(C), 580(C), 583(C).

499 Ad Hoc: 1-12 cr. U. Retakeable w/chg in topic.

571 Quality Control. 3 cr. U/G. Statistical process quality design and control. Process control charts, six sigma and process capability assessment. Prereq: jr st & Ind Eng 467(P) or equiv course in statistics; or grad st.

572 Reliability Engineering. 3 cr. U/G. Concepts and methods for the design, testing, and estimation of component and system reliabilities. Failures and failure rates; life tests; series-parallel, and standby systems; stress levels; redundancy and reliability apportionment; maintainability, availability, and safety; reliability design and implementation. Prereq: jr st; Ind Eng 467(P) or equiv.

575 Design of Experiments. 3 cr. U/G. Statistical principles, designs and analyses for planned experimentation; factorial and fractional factorial designs, inner-outer designs, robustness, confounding and blocking, and response surface methodology. Prereq: Ind Eng 467(P) or equiv.

577 Dimensional Measurement and Tolerancing. 3 cr. U/G. Measurement techniques; implementation and integration of precision measuring equipment and gages in manufacturing systems; geometric dimensioning and tolerancing; and devices for statistical process control. Prereq: sr st & Ind Eng 467(P).

580 Ergonomics. 3 cr. U/G. Broad study of ergonomics principles and stresses in design and analysis of workplaces and physical environment; 2 hrs lec & 2 hrs lab/week. Prereq: jr st.

583 Facility Layout and Material Handling. 3 cr. U/G. Basics in facility planning; design and integration of plant layout, material handling, and warehousing; quantitative models for facility location problems. Prereq: sr st, Ind Eng 370(P), Ind Eng 455(C).

584 Biodynamics of Human Motion. 3 cr. U/G. Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab. Prereq: jr st; ElecEng 234(P); Civ Eng 202(C).

587 Lean Production Systems. 3 cr. U/G. An integrated approach to efficient manufacturing of products with high quality, low cost, and timely delivery including one-piece flow, pull system, and visual factory. Prereq: Ind Eng 350(P).

590 Topics in Industrial and Systems Engineering: (Subtitled). 1-3 cr. U/G. Selected topics of current interest in an area of systems design. May be repeated with change in topic to max of 9 cr. Prereq: sr st.

INTLST International Studies

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

250 Introduction to Study Abroad. 2 cr. U. Discussion of study abroad programs by addressing objectives, cross-cultural communication; specific programs and pre-departure information. No degree cr for students with cr in IntlSt 350 'Studying in the World's Regions'(ER). Cr/no cr only; audit not permitted. Prereq: none.

260 Introduction to International Careers. 2 cr. U. Introduction to a wide variety of career options in area of international studies, partly through lectures with academics and professionals from relevant fields. No degree cr for students with cr in IntlSt 350 'Careers in the World's Regions'(ER). Cr/no cr only; audit not permitted. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in a UWM sponsored program before course level, content, and credits are determined and/or in a specially prepared program course. Section title(s) and credits announced whenever course is offered. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

450 Internship in International Studies. 2-6 cr. U. Internship offering on the job experience to selected majors in international studies. Student enrolls for a specific number of credits. Retakable to 6 cr max. Cr/no cr only; audit not permitted. Prereq: jr or sr st; gpa of 3.0; writ cons prog coord.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Applied Foreign Language. 1 cr. U. Independent reading in a foreign language as companion to courses in international studies. To be arranged with International Studies coordinator. Retakable to 6 cr max. Prereq: 2 yrs college-level work in a foreign language or equiv; cons IntlSt coord.
499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

550 Senior Seminar in International Studies: (Subtitled). 3 cr. U/G. Interdisciplinary seminar with emphasis on functional/regional problems in world affairs.|Retakable w/chg in topic to 9 cr max. Prereq: declared Intl Stds major or minor, or cons instr or prog coord.

699 Independent Study. 1-6 cr. U. Advanced independent work under the supervision of an IntlSt faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult prog coord or advisor.|Retakable w/chg in topic. Prereq: jr st; 2.5 gpa; writ cons instr, prog coord, & assoc dean for SAS.
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20 Great Italians: 1 cr. U. An introduction to the life and works of a major figure in Italian cultural history. Retakable w/chg in topic to 3 cr max. Prereq: none.

103 First-Semester Italian. 4 cr. U. Introductory course for students who have not studied Italian previously. Oral practice, grammar, reading. Students are required to spend an additional hr each week in the language lab in oral drill & comprehension. Counts as repeat of Italian 113. Prereq: none.

104 Second-Semester Italian. 4 cr. U. Continuation of Italian 103. Expands oral, written, and reading skills. Counts as repeat of Italian 114. Prereq: Italian 103(P), 113(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

110 Italian for Travelers. 2 cr. U. Basic conversational Italian for travelers. For students with no knowledge of Italian as well as for those with a basic foundation in the language. Prereq: none.

112 Italian Language and Culture for Professional Communication. 4 cr. U. Basic conversational Italian and discussions in English of contemporary culture; for those doing business in Italy. Prereq: none.

145 Views of Italy: (Subtitled). 3 cr. U. Variable content, with specific topics focusing on the interrelation of literary works and sociocultural values and traditions of Italy. Retakable w/chg in topic. Prereq: none.

155 Masterpieces of Italian Literature in Translation. 3 cr. U. Major works of different periods and genres. Introduction to the critical reading of literary texts. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/ change in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa;
writ cons instr, dept chair & asst dean for SAS.

203 Third-Semester Italian. 3 cr. U. Development of reading, writing, and oral skills; review and further study of grammar.|Prereq: Italian 104(P), 114(P), or cons instr. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

204 Fourth-Semester Italian. 3 cr. U. Continuation of Italian 203.|Prereq: Italian 203(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages.|Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Linguistics 213, Polish 213, Russian 213, & Spanish 213. Prereq: none.

215 Italian Conversation. 3 cr. U. Development of ability to speak and write Italian, with emphasis on everyday speech.|Should be taken conc with Italian 203 or 204. Retakable to 6 cr max. Prereq: Italian 104(P) or 114(P) or placement.

229 Italian Cinema. 3 cr. U. Historical and stylistic study of film as an expression of the contemporary culture of Italy.|Prereq: none.

242 Topics in Italian American Studies: (Subtitled). 3 cr. U. Interdisciplinary study of aspects of Italian American ethnicity, history, and culture.|Retakable w/chg in topic to 6 cr max. Prereq: none.

243 Topics in Italian American Film: 3 cr. U. Study of selected topics in Italian American film.|Retakable w/chg in topic to 6 cr max. Prereq: none.

245 Italian Fictions: (Subtitled). 3 cr. U. Literary themes, types, or figures as they appear throughout Italian literature.|Retakable w/chg in topic to 9 cr max. Prereq: none.

256 Introduction to Italian Food Studies: A Cultural History. 3 cr. U. Interdisciplinary study of Italian cooking and cuisine in fiction and non-fiction works from the Estruscan and Roman times to the present.|Taught in English. Prereq: none.

258 Contemporary Italian Society and Culture. 3 cr. U. Interdisciplinary study, using audio-visual materials, of social, economic, and cultural features shaping Italy today.|In English; reading & papers in Italian required of majors (option A). Prereq: soph st.

277 Italian Discussion Section: 1 or 2 cr. U. Discussion in Italian, designed to broaden perspectives, improve language skills.|Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max. Prereq: Italian 204(P) or cons instr.

289 Internship in Italian, Lower Division. 1-6 cr. U. Application of basic principles of Italian in a business, organizational, educational, political, or other appropriate setting.|Each cr earned for academic work based on 40 hrs internship. Retakable to 6 cr max. Prereq Italian 104(P) or 114(P); 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-9 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One cr for 45 hrs of research.|Retakable to 9 cr max in any combination of UROP Apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires
only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>310</td>
<td>Italian Immersion</td>
<td>1</td>
<td>cr.</td>
<td>U. Concentrated, structured practice of spoken Italian on varied contemporary topics; small-group setting with native speakers, simulating immersion experience. Improve communication skills, build vocabulary. May be offered in short-term sessions. Retakable to 6 cr max. Prereq: Italian 203(P) or cons instr.</td>
</tr>
<tr>
<td>311</td>
<td>Advanced Conversation and Composition: Contemporary Italian Usage</td>
<td>3</td>
<td>cr.</td>
<td>U. Development of advanced speaking, writing, and reading skills. Films and readings emphasize twentieth century Italy. Focus varies each semester. Retakable to 6 cr max. Prereq: Italian 204(P) or cons instr. Generates L&amp;S credit for demonstrated equivalent preparation (14 retro cr).</td>
</tr>
<tr>
<td>312</td>
<td>Contemporary Italian Language and Culture</td>
<td>3</td>
<td>cr.</td>
<td>U. Contemporary culture through Italian readings, film, world wide web, and refinement of advanced conversation and composition skills. Themes vary each semester. Retakable to 6 cr max. Prereq: Italian 204(P) or cons instr. Generates L&amp;S credit for demonstrated equivalent preparation (14 cr).</td>
</tr>
<tr>
<td>313</td>
<td>Translation: Italian-English, English-Italian</td>
<td>3</td>
<td>cr.</td>
<td>U. Contrastive study of literary and non-literary Italian and English prose styles and of the technical problems of translation. Retakable to 6 cr max. Prereq: Italian 203(P) or cons instr.</td>
</tr>
<tr>
<td>321</td>
<td>Introduction to Italian Literature</td>
<td>3</td>
<td>cr.</td>
<td>U. Varied approaches to reading works by major Italian authors. Development of critical skills in speaking and writing. Texts vary each semester. Retakable to 6 cr max. Prereq: Italian 204(P) or cons instr.</td>
</tr>
<tr>
<td>322</td>
<td>Introduction to Italian Literature and Film</td>
<td>3</td>
<td>cr.</td>
<td>U. Interdisciplinary approaches to major works of literature and film. Development of critical reading, speaking, and writing skills. Texts vary each semester. Retakable to 6 cr max. Prereq: Italian 204(P) or cons instr.</td>
</tr>
<tr>
<td>333</td>
<td>Dante's Divine Comedy in Translation</td>
<td>3</td>
<td>cr.</td>
<td>U/G. Close reading of the Inferno, Purgatorio, and Paradiso, including their connections to the visual arts. CompLit &amp; Italian 333 are jointly offered; they count as repeats of one another. Prereq: jr st.</td>
</tr>
<tr>
<td>357</td>
<td>Topics in Italian Culture in Translation: (Subtitled)</td>
<td>3</td>
<td>cr.</td>
<td>U. Examination of a specific topic or genre in works from one or more periods. Retakable w/chg in topic to 9 cr max. Prereq: jr st.</td>
</tr>
<tr>
<td>383</td>
<td>Honors Seminar: (Subtitled)</td>
<td>3H</td>
<td>cr.</td>
<td>U. A period, figure, theme, or genre. Specific aims and method of course vary according to the topic. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.</td>
</tr>
<tr>
<td>391</td>
<td>Phonetics</td>
<td>2</td>
<td>cr.</td>
<td>U/G. Theory of Italian sounds; phonetic transcription; practice in pronunciation. Language lab may be required. Prereq: jr st &amp; Italian 311(P) or 312(P); or grad st.</td>
</tr>
<tr>
<td>397</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12</td>
<td>cr.</td>
<td>U. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.</td>
</tr>
<tr>
<td>413 (effective 09/02/2015)</td>
<td>Introduction to Italian to English Translation</td>
<td>3</td>
<td>cr.</td>
<td>U/G. Comprehensive overview of Italian to English translation; interactive learning of vocabulary and language usage through application of different translation topics; literary, technical, personal documents translation. Prereq: two of Italian 311(P), 312(P), 321(P), or 322(P) or equiv; or admis to grad prog in Translation; or cons instr.</td>
</tr>
</tbody>
</table>
456 Topics in Italian Food Studies: (Subtitled). 3 cr. U/G. Interdisciplinary study of a topic or period related to Italian food culture, with attention to historical and social contexts. Taught in English. Retakable w/chg in topic to 9 cr max. Prereq: jr st or cons instr.

457 Topics in Italian Literature and Culture in Translation: (Subtitled). 3 cr. U/G. Critical reading, lectures, and discussion of major works on a topic, genre, or period; attention to cultural and historical context. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

460 The Italian Novel from Manzoni to the Present. 3 cr. U/G. Major trends and critical problems. Prereq: jr st, Italian 321(P) & 322(P), & cons instr; or grad st.

463 Italian Poetry from Romanticism to Hermeticism. 3 cr. U/G. Foscolo, Leopardi, Carducci, Pascoli, D'Annunzio, Marinetti, Campana, Ungaretti, Montale, Quasimodo. Prereq: jr st & Italian 321(P) & 312(P); or grad st.

466 Italian Theatre from the Commedia Dell'Arte to Pirandello. 3 cr. U. Textual approach and historical development of the genre from the seventeenth to the twentieth century. Prereq: jr st; Italian 311(P) & 312(P).

489 Internship in Italian, Upper Division. 1-6 cr. U. Application of advanced principles of Italian in a business, organizational, educational, political, or other appropriate setting. Each cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; Italian 311(P) & 312(P); 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

551 Literature of the Thirteenth and Fourteenth Centuries. 3 cr. U. The first masterpieces of modern European literature from the Sicilian School of poetry to Petrarch, and from the early novellas to Boccaccio's Decameron. Prereq: jr st; Italian 311(P) & 312(P).

552 The Renaissance: 3 cr. U/G. One or more aspects of intellectual, literary, and artistic production in Italy from Petrarch and Humanism to the Counter-Reformation. Retakable w/chg in topic to 9 cr max. Prereq: jr st & Italian 311(P) & 312(P); or grad st.

556 A Literary Period: 3 cr. U. Cross-disciplinary study of the main literary, intellectual, and cultural aspects of a specific period. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Italian 311(P) & 312(P).

570 Outline of Italian Literary History. 3 cr. U. Historical overview of Italian literature covering the major periods and movements and stressing the relations between literature, philosophy, and aesthetics. Prereq: jr st; Italian 311(P) & 312(P).

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.


659 The Divine Comedy. 3 cr. U/G. Lectures on the life and times of Dante and reading of selected passages from his minor works. Prereq: jr st & Italian 311(P) & 312(P); or grad st.

660 The Divine Comedy. 3 cr. U/G. Continuation of Italian 659. Prereq: jr st & Italian 659(P) or cons instr; or grad st.
670 Studies in Italian Literature: 3 cr. U/G. Major movements or periods, criticism, studies in genres, relations between literature and other disciplines/arts. Retakable w/chg in topic to 9 cr max. Prereq: jr st & Italian 311(P) & 312(P); or grad st.

671 Major Italian Authors: 3 cr. U. Specific subjects may be the works of one or several authors studied in the aesthetic and intellectual contexts of the period covered. Retakable w/chg in topic. Prereq: jr st; Italian 311(P) & 312(P).

675 Literary Theory and Critical Perspectives. 3 cr. U. Major trends in Italian critical thought, with emphasis on contemporary literary theory and methods; stylistic, psychoanalytic, Marxist, and semiotic criticism. Prereq: jr st; Italian 311(P) & 312(P).

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Advanced Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of an Italian faculty or instructional academic staff member. For additional information, consult Italian prog coord. Retakable w/chg in topic. Prereq: jr st; 2.5 gpa, & writ cons instr, dept chair, & assoc dean for SAS.
103 First Semester Latin. 4 cr. U. A systematic introduction to the morphology, syntax, and vocabulary of Latin. Prereq: none.

104 Second Semester Latin. 4 cr. U. Continuation of Latin 103: systematic introduction to the morphology, syntax, and vocabulary of Latin. Prereq: Latin 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

150 Intensive Latin. 4 cr. U. Rapid introduction to Latin for students in fields other than classics who require a knowledge of Latin for continued work in their fields. Readings concentrate on medieval Latin. Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.


289 Internship in Latin, Lower Division. 1-6 cr. U. Application of basic principles of Latin in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Latin; 2.25 gpa; cons supervising faculty member.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

306 Readings in Latin Literature: (Subtitled). 3 cr. U. Reading of texts of Latin literature with emphasis on morphology, syntax, vocabulary; a transition to 500 level courses. Counts as repeat of 2 cr Latin 203 & 1 cr Latin 310. Retakable w/chg in topic to 9 cr max. Prereq: Latin 205(P) or equiv H.S. prep as determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).

489 Internship in Latin, Upper Division. 1-6 cr. U. Application of advanced principles of Latin in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in
internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Latin; 2.25 gpa; cons supervising faculty member.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

501 Readings in Latin Prose: (Subtitled). 3 cr. U/G. Extensive reading in a major author or related major authors; e.g., Cicero, Caesar, the historians, Seneca, Pliny the Younger. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Latin 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).

502 Readings in Latin Poetry: (Subtitled). 3 cr. U/G. Extensive reading in a major or related major authors, e.g., the comic dramatists, the lyric poets, the elegists, the satirists, the writers of epic. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Latin 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).

508 Latin Prose Composition. 3 cr. U/G. Survey of Latin syntax and idioms, with appropriate exercises in prose composition. Required of Latin majors. Prereq: Latin 310(P) or equiv prep as judged by instr.

699 Directed Reading. 1-3 cr. U. Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord. Retakable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
LATINO Latino Studies

101 Introduction to Latino Studies. 3 cr. U. Analyses of the historical and structural forces which have shaped the experience of Latinos in the U.S., including the relationship between Latinos and social institutions.|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent study under supervision of faculty or academic staff member. For further information, consult dept chair.|Retakable to 6 cr max. Prereq: 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

201 Special Topics in U.S. Latino Studies: (Subtitled). 3 cr. U. Interdisciplinary topics central to U.S. Latino studies.|Retakable w/chg in topic to 9 cr max. Prereq: none.

267 The History of Latinos in the United States. 3 cr. U. History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences.|Hist 267 & Latino 267 are jointly offered; they count as repeats of one another. Prereq: none.

279 Introduction to U.S. Latino/a Literature: (Subtitled). 3 cr. U. Latino/a American literature with a focus on region, genre, theme, or period.|Retakable w/chg in topic to 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

289 Internship in Latino Studies, Lower Division. 1-6 cr. U. Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in
topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.


323 Perspectives on Latino Communities. 3 cr. U. Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives. Emphasis on Chicanos, Cubans, and Puerto Ricans. Latino 323 & Sociol 323 are jointly offered; they count as repeats of one another. Prereq: jr st & any Sociol 100-level course or cons instr.

374 Survey of U.S. Latino/a Literature. 3 cr. U. A general, representative study of U.S. Latino/a literature. English 374 & Latino 374 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

388 Latino Politics. 3 cr. U. Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses; Chicano movement, immigration policies, public opinion, voting behavior, representation. Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another. Prereq: jr st.

423 Latino Immigration and Incorporation: (Subtitled). 3 cr. U/G. Latino institutional, geo-political, demographic, comparative, and social network theoretical perspectives on migration to and incorporation into the United States. Retakable w/chg in topic to 6 cr max. Latino 423 & Sociol 423 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; 3 cr in Sociol at 200 level or above or cons instr; addl prereqs may be assigned for specific topics.

489 Internship in Latino Studies, Upper Division. 1-6 cr. U. Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

523 Studies in U.S. Latino/a Literature: (Subtitled). 3 cr. U. Critical study of themes, figures, aspects, trends, etc. in U.S. Latino/a Literature. Retakable w/chg in topic to 9 cr max. English 523 & Latino 523 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

599 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Latino Studies faculty or academic staff member. Retakable w/chg in topic to 9 cr max in any combination of LACS/Latino 698, LACS 699, and Latino 699. Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.

[ College of Letters and Science Home Page ]
University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
101 Great Books Seminar: (Subtitled). 1-3 cr. U. Study of books widely deemed to be fundamentally important to the understanding of a subject or historical epoch and universally significant. Emphasis on independent interpretation by students. Retakable w/chg in topic. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

289 Internship in Humanities, Lower Division: (Subtitled). 1-6 cr. U. Application of basic principles of humanities in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in humanities; 2.25 gpa; cons supervising faculty member.

293 Sophomore Scholars Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to soph. Retakable w/chg in topic to 6 cr max. Prereq: soph st.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in Humanities, Upper Division. 1-6 cr. U. Application of advanced principles of humanities in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in humanities; 2.25 gpa; cons supervising faculty.
496 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or concurrent reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

This course information produced at 01:00 on 07/30/2015.
111 Introduction to the Practice of Pharmacy. 1 cr. U. Overview of pharmacy, including historical perspectives. Specialization options, current issues and future trends; service learning component.|Prereq: cons L&S pre-health professions advisor.

181 Big Ideas in Science. 3 cr. U. An investigation into the process by which science concepts are developed. Three examples, which may vary each semester, provide the context of this investigation.|Not retakable. Prereq: admis into pre-educ or educ classification.

289 Internship in Natural Sciences, Lower Division: (Subtitled). 1-6 cr. U. Application of basic principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max. Prereq: intro course in natural sciences; 2.25 gpa; cons supervising faculty member.

295 Seminar in the Natural Sciences: (Subtitled). 1-3 cr. U. Seminar on various topics in the natural sciences. Topic and prerequisites (if any) announced in Schedule of Classes each time course is offered.|Retakable w/chg in topic to 6 cr max. Prereq: none.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in Natural Sciences, Upper Division. 1-6 cr. U. Application of advanced principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in natural sciences; cons supervising faculty member.
496 UROP Apprenticeship, Upper Level. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP Apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

This course information produced at 01:00 on 07/30/2015.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

268 (Pol Sci 268) Practicum in Mock Trial I. 1-3 cr. U. Introduction to the issues, concepts, and practice of mock trial. | Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined. Prereq: none.

289 Internship in Social Sciences, Lower Division: (Subtitled). 1-6 cr. U. Application of basic principles of social sciences in a business, organizational, educational, political, or other appropriate settings. One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max. Prereq: intro course in social sciences; 2.25 gpa; cons supervising faculty member.

291 UROP Seminar. 1 cr. U. Discussion of the methodology and intellectual underpinnings of academic research. Required of all UROP participants. Retakable to max 4 cr in any combination of L&S SS 291, 294, & 295. Prereq: acceptance to UROP; conc reg in UROP apprenticeship.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.
468 (Pol Sci 468) Practicum in Mock Trial II. 1-3 cr. U. Continuation of the study of the issues, concepts, and practice of mock trial. Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined. Prereq: jr st; Commun/Pol Sci 268(P); satisfaction of GER English Composition competency req.

489 Internship in Social Sciences, Upper Division. 1-6 cr. U. Application of advanced principles of social sciences in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in social sciences; 2.25 gpa; cons supervising faculty member.

496 UROP Apprenticeship, Upper-Level. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP Apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Washington Internship. 9 cr. U. Thirty-six hours of work per week in approved internships in Washington, D.C. supervised by the Washington Center for Learning Alternatives. Weekly seminar attendance. Cr/no cr only. Prereq: jr st, nomination by Washington Intern Committee, & conc reg in appropriate 699 or other independent study course.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

This course information produced at 01:00 on 07/30/2015.
School of Information Studies

INFOST Information Studies

101 Information Literacy. 1 cr. U. Emphasis on techniques in information gathering for students to build expertise in exploring information sources and services. Provides foundation for independent life-long learning experiences. Prereq: none.

110 Introduction to Information Science and Technology. 3 cr. U. Introduces basic issues in information science, including the nature of information, information policy, knowledge organization, information services, and the relationships between information technologies and society. Counts as repeat of InfoSt 110X. Prereq: none.

120 Information Technology Ethics. 3 cr. U. Comprehensive overview of the current ethical issues in information and technology use. Counts as repeat of InfoSt 120X. Prereq: none.

150 Introduction to Information Resources on the Internet. 3 cr. U. Overview of the internet and its resources and services. Introduction to information retrieval and research skills on the internet. Prereq: none.

210 Information Resources for Research. 3 cr. U. Introduction to research processes necessary for effective, college-level, library research. Emphasizes analysis of research questions, development of search strategies, and critical evaluation of materials.

230 Organization of Knowledge. 3 cr. U. An interdisciplinary introduction to information and knowledge organization, including principles of conceptual systems in various disciplines and their relevance and application to knowledge organization.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
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<tbody>
<tr>
<td>230</td>
<td>Organization of Knowledge.</td>
<td>3 cr.</td>
<td>An interdisciplinary introduction to information and knowledge organization, including principles of conceptual systems in various disciplines and their relevance and application to knowledge organization.</td>
<td>Prereq: InfoSt 110(C)</td>
</tr>
<tr>
<td>240</td>
<td>Introduction to Web Design.</td>
<td>3 cr.</td>
<td>Uses popular authoring tools to cover the basics of organizing information.</td>
<td>Prereq: InfoSt 230(C)</td>
</tr>
<tr>
<td>240</td>
<td>Introduction to Web Design.</td>
<td>3 cr.</td>
<td>Uses popular authoring tools to cover the basics of organizing information.</td>
<td>Prereq: InfoSt 230(C)</td>
</tr>
<tr>
<td>250</td>
<td>Internet Communications and Information Transfer</td>
<td>3 cr.</td>
<td>Special emphasis will be upon the Internet and information communications and new communication technologies influencing information services.</td>
<td>Prereq: InfoSt(L&amp;I Sci) 110(P)</td>
</tr>
<tr>
<td>279</td>
<td>Special Topics in Information Science and Technology: (Subtitled).</td>
<td>1-3 cr.</td>
<td>New developments and research in information science &amp; technology. Specific credits and any additional prerequisites announced in Schedule of Classes whenever course is offered.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>297</td>
<td>Study Abroad: (Subtitled).</td>
<td>1-12 cr.</td>
<td>Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.</td>
<td>Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.</td>
</tr>
<tr>
<td>310</td>
<td>Human Factors in Information Seeking and Use.</td>
<td>3 cr.</td>
<td>Overview of human information needs, seeking, and processing, including human factors in the design, development and evaluation of information services.</td>
<td>Prereq: InfoSt 110(C)</td>
</tr>
<tr>
<td>325</td>
<td>Information Security I.</td>
<td>3 cr.</td>
<td>Introduction to issues and practices related to the protection of information and other digital assets.</td>
<td>Prereq: jr st.</td>
</tr>
<tr>
<td>330</td>
<td>Electronic Information Retrieval Systems.</td>
<td>3 cr.</td>
<td>Basics of using electronic information retrieval systems, emphasizing internet and commercial services, in order to obtain information. Includes weekly laboratory sessions.</td>
<td>Prereq: InfoSt(L&amp;I Sci) 210(P) &amp; 110(P)</td>
</tr>
<tr>
<td>340</td>
<td>Introduction to Systems Analysis.</td>
<td>3 cr.</td>
<td>Theories, principles, and tools for planning, organizing, assessing, and evaluating information. Emphasizes the importance of user's perspective. Covers the various stages of systems analysis and outlines the appropriate methods for each stage.</td>
<td>Prereq: InfoSt(L&amp;I Sci) 240(P)</td>
</tr>
<tr>
<td>375</td>
<td>Multimedia Web Design.</td>
<td>3 cr.</td>
<td>Fundamentals of interactive Web development and scripting, allowing students to create Web animations and render interactivity of information on the Web.</td>
<td>Prereq: InfoSt(L&amp;I Sci) 240(P)</td>
</tr>
<tr>
<td>382</td>
<td>Hybrid Mobile Applications.</td>
<td>3 cr.</td>
<td>Basics of mobile application developing including user interface design, iPhone, Androis, and mobile applications.</td>
<td>Prereq: jr st.</td>
</tr>
<tr>
<td>383</td>
<td>Native Mobile Applications.</td>
<td>3 cr.</td>
<td>Basics of mobile application developing including user interface design, iPhone, Androis, and mobile applications.</td>
<td>Prereq: jr st.</td>
</tr>
</tbody>
</table>
385 Information Security II. 3 cr. U. Advanced topics and practices in information security including social, technological, educational and economic implications of information security and privacy.|Counts as repeat of InfoSt(L&I Sci) 491 w/same topic. Prereq: InfoSt 325(P).

399 Independent Study. 1-3 cr. U. Guided readings or research under faculty supervision.|May be retaken to max of 6 cr. Prereq: jr st; 24 cr in IR major; cons instr.

410 Database Information Retrieval Systems. 3 cr. U. Introduces the design and development of different types of electronic information systems, including database types, design issues, application development, and software selection and evaluation.|Prereq: jr st.


430 Multimedia Application Development. 3 cr. U. This course covers the basic concepts of multimedia and their applications in information services, including image representation and processing and multimedia information delivery.|Prereq: InfoSt(L&I Sci) 310(P).

440 Web Application Development. 3 cr. U. The interactive web design server interaction. Special emphasis on database connectivity and application development on the Internet.|Prereq: InfoSt(L&I Sci) 240(P); cons instr.

465 (L&I Sci 475) Legal Aspects of Information Products and Services. 3 cr. U/G. Introduction to legal environment surrounding development and use of information products and services, including intellectual property, and issues specific to internet and other digital mediums.|Prereq: jr st.

490 Senior Capstone. 3 cr. U. Analysis, creation, development and presentation of an information retrieval system project for an information organization.|Prereq: sr st; InfoSt(L&I Sci) 340(P) & 410(P).

495 Information Internship. 3 cr. U. Field experience of 150 hours under faculty and field supervisor guidance. Student must also complete a supervised field project.|Prereq: 24 cr in the IR major; cons instr.

501 Foundations of Library and Information Science. 3 cr. U/G. Historical introduction to library and information
science (LIS); outline of the role of information agencies in disseminating knowledge to users; overview of research in LIS.|Prereq: jr st.

**511 (L&I Sci 531) Organization of Information. 3 cr. U/G.** Introduction to basic concepts in the theoretical, practical, and technological aspects of information organization.|Not open for cr to students with cr in InfoSt(L&I Sci) 530. Prereq: jr st.

**520 Managing Library Collections. 3 cr. U/G.** Theory and practice of collection management across formats including selection tools and criteria, acquisition and evaluation of collections, deselection, preservation, and other collection development topics.|Prereq: jr st; InfoSt(L&I Sci) 501(P) or cons instr.

**521 Introduction to Reference Services and Resources. 3 cr. U/G.** An investigation into reference services, reference interviews, and organization, including critical examination of basic reference sources.|Prereq: jr st; InfoSt(L&I Sci) 501(P), 571(P); or cons instr.

**524 (L&I Sci 540) Management of Libraries and Information Services. 3 cr. U/G.** The library/information center as a service organization. Management of the library/information center: planning, budgeting, decision making, leadership styles, motivation, communication, personnel and financial management.|Prereq: jr st; InfoSt(L &I Sci) 501(P); or cons instr.

**571 Information Access and Retrieval. 3 cr. U/G.** An overview of the concepts and theory related to information retrieval.|Prereq: jr st.

**591 Introduction to Research Methods in Library and Information Science. 3 cr. U/G.** An introduction to basic research concepts, methods, and evaluation in library and information science, and applications of research in the information professions.|Prereq: jr st.

**603 (L&I Sci 680) History of Books and Printing. 3 cr. U/G.** The people, ideas, and events in the history of bookmaking from ancient times to the 1890's.|Prereq: jr st.

**619 Topics in Information Organization: (Subtitled). 1-3 cr. U/G.** Study of particular topics in Information Organization. Specific topics announced in Schedule of Classes each time course is offered.|May be repeated with change in topic to 9 cr max. Prereq: jr st & InfoSt(L&I Sci) 511(P); or cons instr.

**622 Information Marketing. 3 cr. U/G.** Concepts and principles of marketing and strategic planning as they apply to libraries and information agencies; case studies in information brokering and repackaging.|Prereq: jr st.

**627 (L&I Sci 686) Music Librarianship. 3 cr. U/G.** Examination of materials used in obtaining music information and in establishing bibliographic control. Emphasis on reference, library instruction, collection management, and organization of music collections.|Prereq: jr st; InfoSt(L&I Sci) 511(531)(P), 571(P); or cons instr.


**642 School Library Media Programs and Resources. 3 cr. U/G.** A study of the functions of the school library media center as an educational component including service, administration, collection development and utilization of materials.|Prereq: jr st; InfoSt(L&I Sci) 511(531)(P); 520(P); 571(P); or cons instr.

**644 (L&I Sci 690) School Library Practicum. 1-3 cr. U/G.** Field experience of 210 hours in elementary and secondary school library media services under faculty and field supervisor guidance.|Prereq: jr st; school library media certification program students only; InfoSt(L&I Sci) 511(531)(P), 520(P), 571(P) & 642(672)(C); or cons instr.

**645 (L&I Sci 648) Library Materials for Children. 3 cr. U/G.** Introduction to print and media resources available in
library collections; selection procedures, evaluation criteria, access and promotion of use of materials.|Prereq: jr st.


**650 An Introduction to Modern Archives Administration. 3 cr. U/G.** An introduction to the archives profession, archives administration, main uses of primary sources in academic research, and archival issues regarding the Internet and other technologies.|Prereq: jr st; InfoSt 501(C).

**655 (L&I Sci 615) Information and Records Management: 3 cr. U/G.** Principles and practices of information and records management: organizational information needs, retention, schedules, vital records protection, micrographics, records centers and records management policy.|Prereq: jr st.

**656 Electronic Documents and Records Management. 3 cr. U/G.** Advanced concepts, unique challenges, and ongoing issues of electronic records management, including automated systems, information lifecycle management, access, legality, media stability, migration, and long-term preservation.|Counts as repeat of InfoSt(L&I Sci) 691 w/same topic. Prereq: jr st; InfoSt(L&I Sci) 655(P) or cons instr.

**660 (L&I Sci 625) Information Policy. 3 cr. U/G.** Explore various aspects of information policy including privacy, intellectual property, and intellectual freedom; covers applicable methodologies.|Prereq: jr st.

**661 (L&I Sci 620) Ethics and the Information Society. 3 cr. U/G.** Ethical traditions, concepts, and principles for the information professions in the global information society; ethical implications of information technologies.|Counts as a repeat of L&I Sci 691 with similar topic/title. Prereq: jr st & InfoSt(L&I Sci) 110(P); 501(P) or cons instr.

**661 (effective 09/02/2015) Information Ethics. 3 cr. U/G.** Ethical traditions, concepts, and principles for the information professions in the global information society; ethical implications of information technologies.|Counts as a repeat of L&I Sci 691 with similar topic/title. Prereq: jr st & InfoSt(L&I Sci) 110(P); 501(P) or cons instr.

**670 Instructional Technologies. 3 cr. U/G.** Traditional technologies, multimedia formats, and computer-based technologies for instructional purposes.|No degree cr for students with cr in InfoSt(L&I Sci) 668 or 669. Prereq: jr st; InfoSt(L&I Sci) 632(P).

**674 The Search Engine Society. 3 cr. U/G.** Critical examination of the role of search engines in contemporary society, including impact on information organization and retrieval, information institutions, information policy, law, and ethics.|Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic. Prereq: jr st; InfoSt(L&I Sci) 501(P) or cons instr.

**675 Information Technology and Organizations. 3 cr. U/G.** Topical seminar, exploring the relationship between information technology (IT) culture, organizations and the organization of work, cultures, subcultures; sociology of IT work; enterprise systems; knowledge management; data mining and IT careers.|Prereq: jr st.

**682 (L&I Sci 635) Digital Libraries. 3 cr. U/G.** Concepts and technologies for development of digital libraries. Topics include tools for multimedia digitization, organization of digital resources, and evaluation of digital libraries and gateways.|Prereq: jr st & InfoSt(L&I Sci) 110(P); 501(P); or cons instr.

**685 Electronic Publishing and Web Design. 3 cr. U/G.** An introduction to principles of visual communications related to electronic media with emphasis on website development, electronic documents, and production and dissemination of electronic information.|Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic. Prereq: jr st.

**691 Special Topics in Information Science: (Subtitled). 1-3 cr. U/G.** An exploration of current topics in information science. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered.|May be retaken with change in topic to max of 9 cr. Prereq: jr st; cons instr.
LINGUIS Linguistics

100 The Diversity of Human Language. 3 cr. U. Survey course on the nature and diversity of human language. Topics include language and society, dialects, language and culture, language acquisition, and language typology. Prereq: none.

102 Uncommonly Taught Language: Intensive First Semester: (Subtitled). 5-7 cr. U. Intensive training in an uncommonly taught language, for students with no previous knowledge of the language. Retakable w/chg of language. FLL 102 & Linguis 102 are jointly offered; w/same topic, they count as repeats of one another. Prereq: none.

103 First Semester of an Uncommonly-Taught Language: (Subtitled). 1-4 cr. U. Elementary training in an uncommonly-taught language (i.e. one not otherwise offered in any UWM program). Number of credits earned by the student is determined by the credit value assigned to section number. For students with no previous knowledge of the language. Retakable w/chg in language. FLL 103 & Linguis 103 are jointly offered; with same topic, they count as repeats of one another. Prereq: none.

104 Second Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 103 (Linguis 131). Number of credits earned by student is determined by the credit value assigned to section number. Retakable w/chg in language. FLL 104 & Linguis 104 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 103 (Linguis 131) (P) in same language.

105 First-Semester Hmong. 3 cr. U. Beginning Hmong for students with no previous knowledge of the language. No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 105 & Linguis 105 are jointly offered; they count as repeats of one another. Prereq: none.

106 Second-Semester Hmong. 3 cr. U. Continuation of Linguis 105. No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 106 & Linguis 106 are jointly offered; they count as repeats of one another. Prereq: Hmong 105/Linguis 105 (P).

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Retakable w/chg in topic to 9 cr max. Prereq: 2.5 gpa, cons instr, & either Linguis 100 or any Linguis course 200 or above.
200 Aspects of Language: (Subtitled). 3 cr. U. Selected topics involving innovative approaches to the study of language, particularly as related to other disciplines. Retakable w/chg in topic to 9 cr max. Prereq: none.

202 Uncommonly Taught Language: Intensive Second Semester: (Subtitled). 5-7 cr. U. Continuation of FLL/Linguis 102(Linguis 133). Retakable w/chg in language. FLL 202 & Linguis 202 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 102(Linguis 133)(P) in same language.

203 Third Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 104(Linguis 132). Number of credits earned by student is determined by credit value assigned to section number. Retakable w/chg in language. FLL 203 & Linguis 203 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 104(Linguis 132)(P) in the same language.

204 Fourth Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 203(Linguis 231). Number of credits earned by student is determined by the credit value assigned to section number. Retakable w/chg in language. FLL 204 & Linguis 204 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 203(Linguis 231)(P) in the same language.

210 Power of Words. 3 cr. U. Dynamic role of language in interpersonal relations, social attitudes and behavior. Topics include: patterns of culture and language, language as identification; prejudice, politics, and advertisement. Prereq: none.

211 Origins of Words. 3 cr. U. Vocabulary of English from historical origins to the present; how words and word patterns change over time under influences of both internal and external forces. Prereq: none.

212 Language and Gender. 3 cr. U. How patterns of speaking reflect, perpetuate, and create our experience of gender; how gender interacts with race, class, socioeconomic status, age, occupational and social roles. Counts as a repeat of Linguis 200 with same topic. Prereq: none.

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. Jointly offered with, & may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Polish 213, Russian 213, & Spanish 213. Prereq: none.

289 Internship in Linguistics, Lower Division. 1-6 cr. U. Application of basic principles of linguistics in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Linguis; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/topic chg. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

303 Fifth Semester of an Uncommonly Taught Language: (Subtitled). 3-4 cr. U. Continuation of FLL/Linguis 204(Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number. Retakable w/chg in language. FLL 303 & Linguis 303 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 204(Linguis 232)(P) in same language.
<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
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<tr>
<td>304</td>
<td>Sixth Semester of an Uncommonly Taught Language: (Subtitled)</td>
<td>3 cr.</td>
<td>Continuation of FLL/Linguis 303(Linguis 331). Number of credits earned by student is determined by the credit value assigned to section number. Retakable w/chg in language. FLL 304 &amp; Linguis 304 are jointly offered; w/same topic, they count as repeats of one another. Prereq: FLL/Linguis 303(Linguis 331)(P) in same language.</td>
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</tr>
<tr>
<td>350</td>
<td>Introduction to Linguistics.</td>
<td>3 cr.</td>
<td>Introduction to basic linguistic principles and concepts. Elementary analysis of sentence patterns, sound systems and language change. Prereq: jr st or a linguis course.</td>
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</tr>
<tr>
<td>398</td>
<td>Topics in Linguistics: (Subtitled)</td>
<td>1-6 cr.</td>
<td>Topics in any of several recognized areas of linguistics. Retakable w/chg in topic to 9 cr max. Prereq: jr st.</td>
<td></td>
</tr>
<tr>
<td>400</td>
<td>Introduction to English Linguistics.</td>
<td>3 cr.</td>
<td>Application of linguistic theory and techniques to modern English. Prereq: English 400 required of all English majors and minors in School of Education. Jointly-offered with &amp; counts as repeat of English 400.</td>
<td></td>
</tr>
<tr>
<td>406</td>
<td>Advanced English Grammar.</td>
<td>3 cr.</td>
<td>Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax. English 406 &amp; Linguis 406 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.</td>
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</tr>
<tr>
<td>410</td>
<td>Literacy, Grammar, and Methodologies in ESL Education.</td>
<td>3 cr.</td>
<td>Grammatical and other linguistic concepts relevant to ESL education; implications for teaching language, reading and composition. Topics include language acquisition and grammatical problems in language/dialect variation. Prereq: jr st &amp; Linguis 350(P).</td>
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</tr>
<tr>
<td>415</td>
<td>First Language Acquisition</td>
<td>3 cr.</td>
<td>Examination of research on what individuals know about their first language at different ages and the kinds of theories offered to explain these data. Prereq: jr st &amp; Linguis 350(P); or grad st &amp; cons instr.</td>
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</tr>
<tr>
<td>420</td>
<td>Introduction to Second Language Acquisition</td>
<td>3 cr.</td>
<td>Principles and methods of describing and comparing the structure of two or more languages with emphasis on the implications of this comparison for language learning. Prereq: jr st; Linguis 350(P) or equiv.</td>
<td></td>
</tr>
<tr>
<td>430</td>
<td>Language and Society.</td>
<td>3 cr.</td>
<td>The influence of society on language and of language on society. Language as social interaction, speech styles, social dialects; effects on language change. Prereq: jr st &amp; Linguis 350(P).</td>
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<tr>
<td>440</td>
<td>Psycholinguistics.</td>
<td>3 cr.</td>
<td>A survey of the history, goals, methods, and findings of psycholinguistics. Principal topics: phonetic perception, speech production, syntactic processing, linguistic memory, meaning, and language acquisition. Prereq: jr st; Linguis 350(R) or Psych 101(R); or grad st &amp; cons instr.</td>
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<tr>
<td>450 (370)</td>
<td>General Phonetics and Phonetics Practicum.</td>
<td>3 cr.</td>
<td>Study of linguistic phonetics, including articulatory physiology, acoustics, and speech perception. Practice in production and transcription of a wide variety of speech sounds. 3 hrs lec with practicum. Prereq: jr st.</td>
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<tr>
<td>460</td>
<td>Introduction to Phonology.</td>
<td>3 cr.</td>
<td>Basic properties of sounds, sound patterns, and sound processes of spoken language. Prereq: jr st &amp; Linguis 350(P); or grad st &amp; cons instr.</td>
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<tr>
<td>464</td>
<td>Introduction to Syntax.</td>
<td>3 cr.</td>
<td>Study of word and sentence formation in languages. Practice in analysis and argumentation using data from various languages. Prereq: jr st &amp; Linguis 350(P); or grad st &amp; cons instr.</td>
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</tr>
<tr>
<td>466</td>
<td>Semantics.</td>
<td>3 cr.</td>
<td>The study of meaning in language; its role in grammatical description. Basic concepts used in semantic analysis and discussion of their place in grammatical theory. Prereq: jr st &amp; Linguis 260(P) or 350(P) or Philos 211(P); or grad st &amp; cons instr.</td>
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</table>
468 Language in its Various Forms: (Subtitled). 3 cr. U/G. Analysis and description of various language types. Topics may include language change, language development, dialectology, and language typology. Retakable w/chg in topic to 9 cr max. Prereq: jr st & Linguis 350(P); or grad st & cons instr.

470 Historical/Comparative Linguistics. 3 cr. U/G. The study of language change; introduction to internal reconstruction and the comparative method; generative approaches to historical change. Prereq: jr st & Linguis 350(P); or grad st & cons instr.

474 Language Typology and Language Universals. 3 cr. U/G. Comparison of phonetic, syntactic, and lexical patterns of different languages, with emphasis on deriving statements about properties of all languages or of significant subclasses of languages. Prereq: jr st & Linguis 350(P); or grad st & cons instr.

476 Linguistic Theory. 3 cr. U/G. Survey of twentieth century American linguistic theories from traditionalism through American structuralism to generative grammar, including discussion of some current issues. Prereq: jr st & Linguis 350(P); or grad st & cons instr.

489 Internship in Linguistics, Upper Division. 1-6 cr. U. Application of advanced principles of linguistics in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in linguis; 2.25 gpa; cons supervising faculty member.


497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l semester. Retakable with change in topic. Prereq: jr st, add'l prereqs may be assigned to specific topic.

520 Advanced Second Language Acquisition: (Subtitled). 3 cr. U/G. Readings, discussions, and analyses of current issues in second-language acquisition theory. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Linguis 420(P) or equiv.

550 Phonetics II. 3 cr. U/G. Auditory phonetics; issues in speech production and speech acoustics; quantitative study of speech sounds in linguistic contexts; independent experimental research on topic selected by student. Prereq: jr st; Linguis 450(370)(P) or cons instr.

560 Advanced Phonology. 3 cr. U/G. Fundamental issues in generative phonology; emphasis on comparing alternative models of phonological description. Prereq: jr st; Linguis 460(P).

564 Advanced Syntax. 3 cr. U/G. Continuation of Linguis 464, with greater emphasis on the evaluation and justification of competing solutions and competing models of grammar. Prereq: jr st & Linguis 464(P).


566 Advanced Semantics. 3 cr. U/G. Readings, discussion, and analysis of current issues in formal semantics for natural language. Prereq: jr st; Linguis 466(P) or equiv; or grad st.
567 Materials for ESL Instruction. 3 cr. U/G. Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners. | English 567 & Linguis 567 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; cons instr.

569 Internship in Teaching ESL to Adult Learners. 3 cr. U/G. Designed to provide practical field experience in language teaching to adult/university-level ESL learners. | English 569 & Linguis 569 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req; cons instr.

570 Issues in Bilingualism. 3 cr. U/G. Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints. | Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another. Prereq: jr st.

699 Independent Reading. 1-3 cr. U. Advanced independent work under the supervision of a Linguis faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept chair. | Retakable w/chg in topic to 12 cr max. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.

J. English Language Concentration

407 (English 407) Introduction to Functional Syntax. 3 cr. U/G. Introduction to the study of syntactic patterns, typology, and universals from the standpoint of functionalist syntactic theory. | Prereq: jr st, satisfaction of GER English Composition competency req; English/Linguis 400(P) or Linguis 350(P).

This course information produced at 01:00 on 07/30/2015.
101 Introduction to Mass Media. 3 cr. U. Overview of mass media from the printing press to the internet. Focus on media technologies, industries, content, and critical approaches. [Prereq: none.]

111 Gender and the Media. 3 cr. U. How gender representations in popular media inform and construct our understandings of the world; gender in popular culture, including new media; critical analysis of representations. [No cr for students w/cr in JAMS 460. Prereq: none.]

112 Global Media. 3 cr. U. How media function in other countries and cultures from a perspective informed by Western and non-Western conceptual, philosophical, and cultural frameworks. [No cr for students w/cr in JAMS 620. Prereq: none.]

113 Internet Culture. 3 cr. U. Social, cultural, and historical dimensions of the Internet. [Prereq: none.]

114 Media and Popular Culture. 3 cr. U. Critical perspectives on media and popular culture (including television, comic books, new media); how media and popular culture structure everyday life. [Prereq: none.]

115 Introduction to Media and Politics. 3 cr. U. Preparation to be informed, critical consumers of political messages in wide range of mass media; applying research on political content and effects of mass media. [No cr for students w/cr in JAMS 615. Prereq: none.]

116 Journalism, Documentary, and Democracy. 3 cr. U. The role of journalism and documentary in democracy examined through a variety of media products. [Prereq: none.]

142 Television and Radio in American Society. 3 cr. U. Current issues in broadcasting in the United States, including ratings, programming, audience research, and effects. [Not open for cr to students who have cr in JAMS 250. Prereq: none.]

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. [Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.]

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is
199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

201 Media Writing. 3 cr. U. Techniques and strategies for writing that can communicate effectively with media audiences; emphasizes innovation and creativity within the constraints of good grammar and style.|Prereq: score of at least 3 on EPT or grade of at least B- in English 101(P) or 102(P).

204 News Writing and Technology. 3 cr. U. Writing, storytelling, digital editing and production for journalism and documentary.|Prereq: declared JAMS major or minor.

207 Introduction to Advertising and Public Relations. 3 cr. U. A practical approach to developing, implementing, and evaluating advertising and public relations strategies.|Prereq: declared JAMS major or minor.

210 Jewish and Ethnic Narratives and Identities in Media. 3 cr. U. Jewish and ethnic media; comparative analysis of narrative and identity constructions in photography, television, film, and convergent media.|Jewish 210 & JAMS 210 are jointly offered; they count as repeats of one another. Prereq: none.

225 Nature and Culture in the Information Age. 3 cr. U. Exploration of popular ideas about nature and humans' place in it, as reflected and shaped by the mass media and other cultural forces.|Prereq: none.

226 Religion, Media, and Culture. 3 cr. U. Role of the mass media in shaping people's understanding and experience of religion and in negotiating the interaction between religion and society.|Prereq: none.

230 Copy Editing. 3 cr. U. Training in print editing; introduction to basic layout principles.|Prereq: grade of B or better in JAMS 201(P).


232 Photojournalism. 3 cr. U. The history of photography and the practice of photojournalism, including aesthetic, conceptual, and technical developments. Digital production and distribution.|Prereq: soph st.

260 Contemporary Non-Fiction Media. 3 cr. U. Overview of new and traditional forms of non-fiction media such as documentaries, web sites, and reality television.|Prereq: none.

262 Principles of Media Studies. 3 cr. U. Central issues and concerns in the field of media studies. Cultural study of media industries and production practices. Analysis of media texts and audiences.|Prereq: declared JAMS major or minor.

280 Selected Topics in Mass Communication: (Subtitled). 3 cr. U. Selected topics not addressed in regularly-approved courses.|Retakable w/chg in topic to 6 cr max. Prereq: soph st; add'l prereqs, if any, announced in the Schedule of Classes.

289 Internship in Journalism and Media Communication, Lower Division. 1-6 cr. U. Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 75 hrs in internship. Does not count toward JAMS major.
296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. Prereq: acceptance into UROP; prior or concurrent enrollment in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored programs before coursework is completed, and coursework and credits are determined and/or in specially prepared program coursework. Prereq: acceptance for Study Abroad Program.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Prereq: none; add'l prerequisites may be assigned to specific topic.

306 Feature and Magazine Article Writing. 3 cr. U. Practice in preparing periodical articles for publication. Prereq: jr st; declared JAMS major/minor or English major.

307 Persuasive Media Writing and Production: (Subtitled). 3 cr. U. Writing, design, and production of persuasive media elements through individual and group work and skills-based activities. Not retakable for cr. Prereq: declared JAMS major/minor; grade of C or better in JAMS 207(P).

320 Integrated Reporting. 3 cr. U. Reporting and research for journalism and documentary. Prereq: declared JAMS major or minor; grade of C or better in JAMS 203(P), 204(P), or 242(P).

332 Introduction to Digital Documentary. 3 cr. U. How to film and edit quality documentary footage fit for client use, broadcast television, or film festival entry. Prereq: declared JAMS major or minor; grade of C or better in JAMS 203(P), 204(P), 242(P) or 307(P).

336 Media Graphics. 3 cr. U. Production and analysis of mass media graphics, photographs, and illustrations. Prereq: jr st; JAMS major/minor or Digital Arts and Culture (DAC) status; grade of C or better in JAMS 113(P) or grade of C or better in ART 118(P).

342 Television News Reporting. 3 cr. U. Reporting, writing, and editing television news, including field camera operation and video editing. Prereq: declared JAMS major or minor; grade of C or better in JAMS 204(P).

356 Media Literacy. 3 cr. U. Application of general semantics and other critical thinking principles to reporting methodology and news judgment. Prereq: jr st.

360 History of Mass Media. 3 cr. U. Evolution of mass media in the United States; how technological, cultural, political and economic changes have affected the media. Prereq: jr st.

361 Media Ethics. 3 cr. U. Practical application of ethical principles to controversies in print and broadcast journalism, advertising, public relations, and new technologies of mass communication. Prereq: jr st.


381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

399 (effective 09/02/2015) On-Campus Internship. 3 cr. U. Professional internship in journalism, public relations, advertising, or other media. Retakable to 6 cr max in combination with JAMS 600. Prereq: jr st, declared JAMS major, & cons dept internship committee.
399 On-Campus Internship. 3 cr. U. Application of journalism/mass communication skills under professional supervision. Prereq: jr st, declared JAMS major, & cons dept internship committee.

450 Race and Ethnicity in the Media. 3 cr. U. How popular media representations of race inform understandings of past and contemporary society; race in popular culture, especially new media; critical analysis of media content and forms. Counts as repeat of JMC 660 w/similar topic. Prereq: jr st.

489 Internship in Journalism and Media Communication, Upper Division. 1-6 cr. U. Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 75 hrs in internship. Does not count toward JAMS major or minor. Cr/no cr only. Retakable to 6 cr max. Prereq: 2.5 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prerequisites may be assigned to specific topic.

500 Advanced Integrated Reporting. 3 cr. U. Long form multimedia story production. Prereq: jr st; declared JAMS major or minor; grade of C or better in 320(P).

503 Environment and the Media. 3 cr. U. Analysis of environmental reporting in a variety of media; confluence of science, health, business, and political influences in environmental coverage. Counts as a repeat of JAMS 660 with similar title. Prereq: jr st.


505 Research for Advertising and Public Relations. 3 cr. U/G. Examination of the research process through hands-on projects; how to formulate research questions, design questionnaires, collect data, and report and interpret answers to these questions. Prereq: jr st; grade of C or better in JAMS 207(P), 222(P), or 224(P); or cons instr.

524 Advertising and Public Relations Campaigns. 3 cr. U. Advanced course in advertising and public relations; emphasis on applying integrated practices and principles. Prereq: jr st; grade of C or better in JAMS 222(P), 224(P), or 307(P); declared JAMS major or minor.

532 Documentary Production. 3 cr. U. Producing, directing, researching, and writing for long-format documentary journalism. No cr for students w/cr in JAMS 660 w/similar topic. Prereq: declared JAMS major or minor; grade of C or better in JAMS 332(P).

544 Television Newsroom Management. 3 cr. U. Principles and practices of television news management, including hands-on experience with television news producing, assignment editing, and managing reporting crews. Prereq: jr st; declared JAMS major or minor; grade of C or better in JAMS (342)542(P).


559 (effective 09/02/2015) Freedom of Expression in the Digital Age. 3 cr. U/G. First Amendment, copyright, privacy, libel, and other legal issues in contemporary news, media, persuasive communication, and social communication. Prereq: jr st.

562 Media Studies and Culture. 3 cr. U/G. Mass media and the production of culture; media industries, content, and
audiences; focus on contemporary issues.|Prereq: jr st; grade of C or better in JAMS 262(P).

600 (effective 09/02/2015) Off-Campus Internship. 3 cr. U/G. Professional internship in journalism, public relations, advertising, or other media.|Retakable to 6 cr max in combination with JAMS 399. Prereq: jr st & declared JAMS major, or grad st; cons internship committee.

600 Off-Campus Internship. 3 cr. U/G. Professional internship in journalism, public relations, advertising, or other mass communication field.|Prereq: jr st & declared JAMS major, or grad st; cons internship committee.

602 Specialized Reporting: (Subtitled). 3 cr. U. Overview of the problems and challenges of specialized reporting in an area such as social science, science, the humanities and the arts.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; declared JAMS major or minor; grade of C or better in JAMS 320(P).

614 Seminar in Media and Public Opinion. 3 cr. U/G. Preparation to be critical consumer of polls and media coverage of them; theories and findings regarding propaganda and media influence on public opinion.|Prereq: jr st.

615 Seminar in Media and Politics. 3 cr. U/G. How news media cover politics; role of traditional and new media in political campaigns; political content and effects of entertainment media and documentaries.|Prereq: jr st.

620 Seminar in Global Media. 3 cr. U/G. Economic, regulatory, and cultural characteristics of national and global mass media.|Prereq: jr st.

645 Seminar in Health and the Media. 3 cr. U/G. Theoretical frameworks for examination of media representations of health, illness, health care; impact of media consumption on health, illness; use of media in health promotion.|Counts as a repeat of JAMS 660 w/ health-related subtitle. Prereq: jr st.

659 Seminar in Comparative Media Law. 3 cr. U/G. Critical thinking and research about different countries' approaches to freedom of expression and legal issues relating to journalism, advertising, and other aspects of the media.|Prereq: jr st; JAMS 559 or cons instr.


661 Seminar in Media Communication and Society: (Subtitled). 3 cr. U/G. Topics related to the mass media; the research process; development of a seminar paper based on original research.|Retakable w/chg in topic to 6 cr max. Prereq: jr st; add'l prereqs, if any, announced in the Schedule of Classes.

699 Advanced Independent Study. 1-6 cr. U. For further information, consult dept chair.|Retakable w/chg in topic to 6 cr max. Prereq: jr st, 2.5 gpa, & writ cons instr, dept chair & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.
150 It's a Material World: The Role of Materials in Society. 3 cr. U. Introductory course on the nature of materials and their role in the development of society. Historical perspectives, current societal issues, and future trends are discussed. Prereq: none.

201 Engineering Materials. 4 cr. U. Basic behavior and processing of engineering materials emphasizing metals and alloys and including ceramics and plastics. Laboratory work is included. Prereq: Chem 105(P) or 102(P) or 117(P).

299 Topics in Materials: (Subtitled). 1-3 cr. U. Work on new material in materials. Section title and credits announced whenever course is offered. May be retaken to max of 6 cr with change in topic. Prereq: specific courses dependent on topic.

330 Materials and Processes in Manufacturing. 3 cr. U. Principles and practice of manufacturing processes for engineering materials. Processes include casting, forging, rolling, extrusion, sintering and machining. Laboratory work is included. Prereq: MatlEng 201(P).

380 Engineering Basis for Materials Selection. 3 cr. U. The study of the basis for materials selection in the design of engineering systems. Materials design parameters, classes of materials case studies in material's selections. Prereq: MatlEng 201(P).


410 Mechanical Behavior of Materials. 3 cr. U/G. An introduction to the mechanical behavior of metals, ceramics, polymers and composite materials. Topics include elastic, plastic and viscoelastic deformation, fracture, fatigue, and creep. Prereq: jr st; MatlEng 201(P); or grad st; or cons instr.

411 Materials Laboratory. 3 cr. U. Experiments demonstrating the basic laws governing the structure, properties, and processing of materials. Prereq: sr st; MatlEng 201(P).

431 Welding Engineering. 3 cr. U/G. An engineering course on joining processes; reaction of materials to welding, brazing and soldering; distortion; process and material selection and structural engineering considerations. Prereq: jr st;
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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tr>
<td>442</td>
<td>Thermodynamics of Materials</td>
<td>3 cr.</td>
<td>U/G. Third law of thermodynamics; application of thermodynamics to materials processes and systems; behavior of solutions; reaction equilibria. Prereq: jr st, admis to MatlEng major, MatlEng 201(P); or grad st; or cons instr.</td>
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<tr>
<td>443</td>
<td>Transport Phenomena in Materials Processing</td>
<td>3 cr.</td>
<td>U/G. A study of phenomena related to transport of mass, energy, and momentum with applications to materials processing. Prereq: jr st, MatlEng 442(P), &amp; ElecEng 234 (P); or grad st.</td>
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<tr>
<td>452</td>
<td>Ceramic Materials</td>
<td>3 cr.</td>
<td>U/G. Ceramic bonding, crystallography and structure, defects and Brouwer diagram, mass and electrical transport of ceramics, phase equilibria, mechanical properties, and processing of ceramics including sintering. Not open for cr to students with cr in MatlEng 451(ER). Prereq: jr st, MatlEng 201(P); or grad st.</td>
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<tr>
<td>453</td>
<td>Polymeric Materials</td>
<td>3 cr.</td>
<td>U/G. Structure, crystallinity of polymers, amorphous polymers and elastomers, synthesis method, polymerization, copolymerization, polymer characterization, polymer solutions, and viscoelasticity, deformation mechanics of polymers. Not open for cr to students with cr in MatlEng 451(ER). Prereq: jr st, MatlEng 201(P); or grad st.</td>
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<tr>
<td>456 (421)</td>
<td>Metal Casting Engineering</td>
<td>3 cr.</td>
<td>U/G. Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design. MatlEng 456(421) and MechEng 456 are jointly offered; they count as repeats of one another. Prereq: jr st; MatlEng 201(P).</td>
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<tr>
<td>460</td>
<td>Nanomaterials and Nanomanufacturing</td>
<td>3 cr.</td>
<td>U/G. Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluids, nanorheology, nanomachines, and nanotribology. MatlEng 460 &amp; MechEng 460 are jointly offered; they count as repeats of each other. Prereq: jr st; MatlEng 201(P).</td>
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<tr>
<td>461</td>
<td>Environmental Degradation of Materials</td>
<td>3 cr.</td>
<td>U/G. Technical and economic aspects of material degradation including corrosion and corrosion control. Forms of corrosion, other degradation mechanisms, thermodynamics, kinetics, materials, design, protection strategies. Prereq: jr st; MatlEng 201(P).</td>
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<tr>
<td>465</td>
<td>Friction and Wear</td>
<td>3 cr.</td>
<td>U/G. Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement. Not open to students who have cr in MechEng 465, which is identical to MatlEng 465. Prereq: jr st; MatlEng 201(P).</td>
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<tr>
<td>471</td>
<td>Heat Treatment of Materials</td>
<td>3 cr.</td>
<td>U/G. Study of the heat treatment processes and their effect on the microstructure and properties of metals. Emphasis is on steels, but all alloy systems of importance are covered. Prereq: jr st; MatlEng 201(P).</td>
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<tr>
<td>485</td>
<td>Introduction to Biomaterials</td>
<td>3 cr.</td>
<td>U/G. Introduction to the fundamentals of biomaterials including ceramics, metals, and polymers. Important issues in the selection, design, manufacturing, and evaluation of biomaterials. Current</td>
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490 (390) (effective 09/02/2015) Senior Design Projects I. 1 cr. U. Project identification and planning; proposals, project management, ethics, professional responsibilities, standards and team procedures. Written and oral engineering reports and proposals. For first semester seniors. Prereq: sr st; MatlEng 411(C).

490 (390) Senior Design Projects. 4 cr. U. Independent and team design projects under the direction of a faculty member. Written engineering reports must be submitted on each design project undertaken. Prereq: sr st; MatlEng 201(P); a 400-level Materials course except MatlEng 411.

491 (effective 01/25/2016) Senior Design Projects II. 3 cr. U. Independent and team design projects under the direction of a faculty member. Written and oral engineering reports must be submitted on each design project undertaken. Prereq: MatlEng 490(P).

511 Advanced Materials Characterization. 3 cr. U/G. Theory and operation of advanced materials characterization instrumentation including thermal analysis, XRD, FT-IR, Raman, AFM, and nanoindenter.

690 Topics in Materials: (Subtitled). 3 cr. U/G. Lectures on special topics in materials engineering and science. May be repeated with change in topic to max of 9 cr. Prereq: jr st; cons instr.


This course information produced at 01:00 on 07/30/2015.
90 Basic Mathematics. 0 cr. U. Arithmetic operations involving whole numbers, integers, positive and negative rational numbers; decimals, percents; ratio, proportion; radicals; descriptive statistics; units of measure; geometry; introduction to algebra.|Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Not open to students eligible for math courses that carry graduation credit. Prereq: none.

92 Mathematical Literacy for College Students I. 0 cr. U. Introduction to numeracy, proportional reasoning, algebraic reasoning, and functions. Emphasis on developing conceptual and procedural tools that support the use of key mathematical concepts in context.|Fee for 3 cr assessed; counts as 3 cr toward cr load for Fin Aid & enrollment verification. Prereq: Placement level E or D.

94 Preparation for College Mathematics. 0 cr. U. Combination of the content of Math 90 and Math 95. Use of computer adaptive testing software to provide individualized instruction in a laboratory setting.|Fee for 6 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Math 94 counts as repeat of Math 90 & 95. Prereq: none.

95 Essentials of Algebra. 0 cr. U. Number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring, rational expressions; coordinate geometry; linear systems; quadratic equations.|Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Prereq: math placement level D.

98 Algebraic Literacy I. 0 cr. U. Arithmetic number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring; modeling; coordinate geometry; linear systems; quadratic equations.|Fee for 3 cr assessed; counts as 3 cr toward credit load for Fin Aid & enrollment verification only. Prereq: math placement level D.

102 Mathematical Literacy for College Students II. 3 cr. U. Continuation of Math 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions.|Prereq: C or better in Math 92.

103 (106) Contemporary Applications of Mathematics. 3 cr. U. Logical inference, probability and statistical inference, geometric growth, with selected topics such as linear programming, patterns, binary codes.|Prereq: math placement level C.
105 Intermediate Algebra. 3 cr. U. Algebraic techniques with polynomials, rational expressions, equations and inequalities, exponential and logarithmic functions, rational exponents, systems of linear equations. Not open for cr to students who have cr in Math 108(ER). Prereq: math placement level C.

108 Algebraic Literacy II. 3 cr. U. Continuation of Math 98 in polynomials, equations, and inequalities; exponential, logarithmic, and periodic functions; rational expressions and exponents; and systems of linear equations. Not open for credit for students who have cr in Math 105(ER). Prereq: C or better Math 98.

116 College Algebra. 3 cr. U. Function concepts. Polynomial, rational, exponential, and logarithmic functions. Systems of equations and inequalities. Matrices and determinants. Sequences and series. Analytic geometry and conic sections. Induction. 2 cr may be used to repeat 2 cr of Math 115. Prereq: math placement level B.

117 Trigonometry. 2 cr. U. Trigonometric functions; graphs, identities, equations, inequalities; inverse trigonometric functions; solutions of triangles with applications; complex numbers; polar coordinates. Repeats 2 cr of Math 115. Prereq: math placement level B.


176 Mathematical Explorations for Elementary Teachers II. 3 cr. U. A continuation of Math 175 in geometry, statistics, and probability. Prereq: grade of C or better in Math 175(P).

194 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Regularly offered courses may not be taken as Independent Study. Retakable w/chg in topic to 9 cr max. Prereq: 2.5 gpa in all previous math courses; writ cons instr, dept chair & asst dean for SAS.

205 Introductory Finite Mathematics. 3 cr. U. Elements of mathematical logic, structures in sets; partitions and counting; probability theory, stochastic processes. Prereq: math placement level B.

211 Survey in Calculus and Analytic Geometry. 4 cr. U. A one-semester survey with applications to business administration, economics, and non-physical sciences. Topics include coordinate systems, equations of curves, limits, differentiation, integration, applications. May not be used as a prereq for Math 226, 227, 229, or 232. No cr for students with cr in Math 221, 226, 227, 228, or 231. Prereq: math placement level B.

221 Honors Calculus I. 5H cr. U. Calculus of functions of one and several variables; sequences, series, differentiation, integration; introduction to differential equations; vectors and vector functions; applications. Max of 6 cr in combination of Math 221 & 222 may count toward Honors College reqs. Prereq: math placement level A+; cons instr or Honors College dir.

222 Honors Calculus II. 5H cr. U. Continuation of Math 221. Max of 6 cr in combination of Math 221 & 222 may count toward Honors College reqs. Prereq: C or better in Math 221(P) or B or better in Math 232(P); cons instr.

231 Calculus and Analytic Geometry. 4 cr. U. Limits, derivatives, and graphs of algebraic, trigonometric, exponential, and logarithmic functions; antiderivatives, the definite integral, and the fundamental theorem of calculus, with applications. Repeats Math 226, 227, & 228. Prereq: math placement level A.

232 Calculus and Analytic Geometry. 4 cr. U. Continuation of Math 231. Applications of integration, techniques of integration; infinite sequences and series; parametric equations, conic sections, and polar coordinates. Prereq: grade of C or better in Math 226(P), 227(P), 228(P), 229(P), or 231(P).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>233</td>
<td>Calculus and Analytic Geometry</td>
<td>4</td>
<td>Continuation of Math 232. Three-dimensional analytic geometry and vectors; partial derivatives; multiple integrals; vector calculus, with applications. Counts as repeat of Math 229. Prereq: grade of C or better in Math 232(P).</td>
</tr>
<tr>
<td>234</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
<td>Elementary differential equations. Vectors; matrices; linear transformations; quadratic forms; eigenvalues; applications. Prereq: grade of C or better in Math 232(P).</td>
</tr>
<tr>
<td>234 (effective 09/02/2015)</td>
<td>Linear Algebra and Differential Equations</td>
<td>4</td>
<td>Elementary differential equations. Vectors; matrices; linear transformations; quadratic forms; eigenvalues; applications. No cr for students with cr in Math 240. Prereq: grade of C or better in Math 232(P).</td>
</tr>
<tr>
<td>240 (effective 09/02/2015)</td>
<td>Matrices and Applications</td>
<td>3</td>
<td>Vectors, vector spaces, systems of linear equations, matrices, determinants, linear transformations, diagonalization, eigenvalues, eigenvectors; selected topics from quadratic forms, difference equations, numerical methods, and applications. No cr for students with cr in Math 240. Prereq: Math placement level A or grade of C or better in a Math or MthStat course numbered 200 or higher.</td>
</tr>
<tr>
<td>275 (effective 09/02/2015)</td>
<td>Problem Solving/Critical Thinking for Elementary Education Majors</td>
<td>3</td>
<td>Course provides a strong foundation in the exploration, teaching and communication (oral and written) of mathematical concepts via problem-solving experiences and discussion. Prereq: grade of C or better in Math 175(P) or cons instr.</td>
</tr>
<tr>
<td>276 (effective 09/02/2015)</td>
<td>Algebraic Structures for Elementary Education Majors</td>
<td>3</td>
<td>Topics for K-8 teachers. Basic patterns and rules that govern number systems, geometric transformations, and manipulation of algebraic expressions. Counts as repeat of Math 299 w/same topic. Prereq: Math 175(P) or cons instr.</td>
</tr>
<tr>
<td>277 (effective 01/25/2016)</td>
<td>Geometry for Elementary Education Majors</td>
<td>3</td>
<td>Topics for K-8 teachers. Geometry as measuring tool-congruence, similarity, area, volume, and coordinates; geometry as axiomatic system-definitions, conjectures, proofs, counterexamples; rigid motions, symmetry. Prereq: Math 176(P) or cons instr.</td>
</tr>
<tr>
<td>278 (effective 01/25/2016)</td>
<td>Discrete Probability and Statistics for Elementary Education Majors</td>
<td>3</td>
<td>Random experiments; histograms; sample spaces; equally likely outcomes for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; max likelihood estimation &amp; inference. Math 278 and MthStat 278 are jointly offered; they count as repeats of one another. Prereq: Math 176(P) or cons instr.</td>
</tr>
</tbody>
</table>
| 297 | Study Abroad: (Subtitled) | 1-12 | Designed to enroll students in UWM sponsored programs before course
work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in

**299 Ad Hoc: (Subtitle). 1-6 cr. U.** Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereq may be assigned to specific topic.


**313 Linear Programming and Optimization. 3 cr. U/G.** Primal and dual formulations of linear programming problems; simplex and related methods of solution; algorithms for transportation; optimization. Prereq: jr st; Math/ElecEng 234(P); or grad st.

**314 Mathematical Programming and Optimization. 3 cr. U/G.** Introduction to operations research. Network analysis; integer programming; game theory; nonlinear programming; dynamic programming. Prereq: jr st; Math 313(P) or cons instr; or grad st.

**315 (effective 09/02/2015) Mathematical Programming and Optimization. 3 cr. U/G.** Introduction to operations research. Network analysis; integer programming; game theory; nonlinear programming; dynamic programming. Prereq: jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in either Math 211(P) or 233(P); or cons instr; or grad st.

**320 Introduction to Differential Equations. 3 cr. U/G.** Elementary types and systems of differential equations, series solutions, numerical methods, Laplace transforms, selected applications. No grad cr in Math Sci. Prereq: jr st, Math 233(P) & Math 234(P) or ElecEng 234(P); or grad st.

**320 (effective 01/25/2016) Introduction to Differential Equations. 3 cr. U/G.** Elementary types and systems of differential equations, series solutions, numerical methods, Laplace transforms, selected applications. No grad cr in Math Sci. Prereq: jr st, grade of C or better in both Math 232(P) & 240(P), or grade of C or better in Math/ElecEng 234(P); or grad st.

**321 (effective 09/02/2015) Vector Analysis. 3 cr. U/G.** Topics selected from vector algebra; scalar and vector fields; line, surface, and volume integrals; theorems of Green, Gauss, and Stokes; vector differential calculus. Prereq: jr st, grade of C or better in Math 233(P); or grad st.

**321 Vector Analysis. 3 cr. U/G.** Topics selected from vector algebra; scalar and vector fields; line, surface, and volume integrals; theorems of Green, Gauss, and Stokes; vector differential calculus. Prereq: jr st, Math 233(P) & Math 234(P) or ElecEng 234(P); or grad st.

**322 Introduction to Partial Differential Equations. 3 cr. U/G.** Partial differential equations of mathematical physics, boundary value problems in heat flow, vibrations, potentials, etc. Solved by Fourier series; Bessel functions and Legendre polynomials. Prereq: jr st, Math 320(P); or grad st.

**322 (effective 09/02/2015) Introduction to Partial Differential Equations. 3 cr. U/G.** Partial differential equations of mathematical physics, boundary value problems in heat flow, vibrations, potentials, etc. Solved by Fourier series; Bessel functions and Legendre polynomials. Prereq: jr st, Math 320(P), & grade of C or better in Math 233(P); or grad st.

**341 Seminar: Introduction to the Language and Practice of Mathematics. 3 cr. U.** Goal: facility with mathematical
language and method of conjecture, proof and counter example, with emphasis on proofs. Topics: logic, sets, functions and others. Prereq: math placement level A.

371 Introduction to Stochastic Models in Finance. 3 cr. U/G. Elementary modeling of financial instruments for students in mathematics, economics, business, etc. Statistical and stochastic tools leading to the Black-Scholes model. Real data parameter fitting. Prereq: jr st & one of the following pairs; Econ 413(431)(P) & 506(P), Bus Adm 210(P) & 350(P), Bus Adm 701(P) & 702(P), or Math 234(P) & MthStat 361(P), or cons instr; or grad st.

381 Honors Seminar: (Subtitled). 3H cr. U. Significant topics to illustrate to non-mathematicians the characteristic features of mathematical thought. Only H.S. algebra and geometry assumed. Retakable w/chg in topic to 9 cr max. Not open for cr toward a major in Math. Prereq: soph st; Honors 200(P); cons Honors College dir.

405 (effective 01/25/2016) Mathematical Models and Applications. 3 cr. U/G. Modeling techniques for analysis and decision-making in social and life sciences and industry. Deterministic and stochastic modeling. Topics may vary with instructors. Prereq: jr st, grade of C or better in either Math 211(P) or Math 231(P), & grade of C or better in either Math/ElecEng 234(P) or Math 240(P); or grad st.

405 Mathematical Models and Applications. 3 cr. U/G. Construction and mathematical models with applications to the social and life sciences. Models may involve Markov chains, linear programming, game theory, graph theory and growth processes. Prereq: jr st & either Math 234(P) or Math 205(P) & 211(P); or grad st.

413 (effective 01/25/2016) Introduction to Numerical Analysis. 3 cr. U/G. Root finding and solution of nonlinear systems; direct solution of linear systems; interpolation & approximation of functions; least squares; fast Fourier transform; quadrature. Prereq: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.

413 Introduction to Numerical Analysis. 3 cr. U/G. Root finding and solution of nonlinear systems; direct solution of linear systems; interpolation & approximation of functions; least squares; fast Fourier transform; quadrature. Prereq: jr st, Math 233(C), & Math 234(C) or ElecEng 234(C); or grad st.

415 (414) Introduction to Scientific Computing. 3 cr. U/G. Nonlinear systems; iterative solution of linear systems; initial value problems in ordinary differential equations; boundary value problems in ordinary and partial differential equations. Prereq: jr st, Math 233(P), 234(P) or ElecEng 234(P); or grad st.

415 (effective 09/02/2015) Introduction to Scientific Computing. 3 cr. U/G. Nonlinear systems; iterative solution of linear systems; initial value problems in ordinary differential equations; boundary value problems in ordinary and partial differential equations. Prereq: jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.

417 (416) (effective 09/02/2015) Computational Linear Algebra. 3 cr. U/G. Direct solution of linear systems; iterative solution of linear systems; least squares; eigenvalue problems. Prereq: jr st & grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.

417 (416) Computational Linear Algebra. 3 cr. U/G. Direct solution of linear systems; iterative solution of linear systems; least squares; eigenvalue problems. Prereq: jr st & Math/ElecEng 234(P); or grad st.

431 (effective 01/25/2016) Modern Algebra with Applications. 3 cr. U/G. Groups, rings, fields, Boolean algebras with emphasis on their applications to computer science and other areas. Does not carry grad cr in math sci. Prereq: jr st & grade of C or better in Math 232(P); or grad st.

431 Modern Algebra with Applications. 3 cr. U/G. Groups, rings, fields, Boolean algebras with emphasis on their applications to computer science and other areas. Does not carry grad cr in math sci. Prereq: jr st & Math 232(P); or grad st.
451 (effective 01/25/2016) Axiomatic Geometry. 3 cr. U/G. An axiomatic approach to Euclidean and non-Euclidean geometry (historic role of the parallel postulate and models). Dept cons req'd for grad cr in math sci. Prereq: jr st, grade of C or better in both Math 341(P) & Math 232(C); or grad st.

451 Axiomatic Geometry. 3 cr. U/G. An axiomatic approach to Euclidean and non-Euclidean geometry (historic role of the parallel postulate and models). Dept permission necessary for grad cr in math sci. Prereq: jr st, Math 341(241)(P), & Math 232(C); or grad st.

453 Transformations in Geometry. 3 cr. U/G. Selected topics from vector geometry and geometric transformations such as the study of invariants and conics. Recom for secondary school teachers. Departmental permission necessary for grad cr in math sci. Prereq: jr st, Math 341(241)(P), & Math 232(C); or grad st.

453 (effective 09/02/2015) Transformations in Geometry. 3 cr. U/G. Selected topics from vector geometry and geometric transformations such as the study of invariants and conics. Recom for secondary school teachers. Dept cons req'd for grad cr in math sci. Prereq: jr st, grade of C or better in both Math 341(P) & Math 232(C); or grad st.

489 Internship in Mathematics, Upper Division. 1-6 cr. U. Application of advanced principles of mathematics in a business, organizational, educational, governmental, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 6 cr 300-level or above in math or math stats; 2.5 gpa in the major; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

511 Symbolic Logic. 3 cr. U/G. First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability. CompSci 511, Math 511 & Philos 511 are jointly offered; they count as repeats of one another. Prereq: jr st & either Philos 212(P) or 6 cr in math at the 300-level or above.

521 Advanced Calculus. 3 cr. U/G. Fundamental notions of sets and functions; limits, continuity; Riemann integral, improper integral; infinite series; uniform convergence; power series; improper integrals with a parameter. Prereq: jr st, Math 232(P), & 341(241)(P); or grad st. Math 233(R) & 234(R).

522 Advanced Calculus. 3 cr. U/G. Linear functions; differentiation of functions of several variables (implicit functions, Jacobians); change of variable in multiple integrals; integrals over curves, surfaces; Green, Gauss, Stokes theorems. Prereq: jr st, Math 233(P), 234(P) & 521(P); or grad st.

522 (effective 09/02/2015) Advanced Calculus. 3 cr. U/G. Linear functions; differentiation of functions of several variables (implicit functions, Jacobians); change of variable in multiple integrals; integrals over curves, surfaces; Green, Gauss, Stokes theorems. Prereq: jr st, Math 521(P), grade of C or better in Math 233(P), & grade of C or better in either Math 234(P) or 240(P); or grad st.

531 (effective 09/02/2015) Modern Algebra. 3 cr. U/G. Integers; groups; rings; fields; emphasis on proofs. Prereq: jr st; grade of C or better in Math 341(P).

531 Modern Algebra. 3 cr. U/G. Integers; groups; rings; fields; emphasis on proofs. Prereq: jr st; Math 234(P) & 341(P).

535 Linear Algebra. 3 cr. U/G. Vector spaces; linear transformations and matrices; characteristic values and vectors;
canonical forms; bilinear, quadratic, and Hermitian forms; selected applications. | Prereq: jr st, Math 234(P) or 240(P), & Math 341(241)(P); or grad st.

535 (effective 01/25/2016) Linear Algebra. 3 cr. U/G. Vector spaces; linear transformations and matrices; characteristic values and vectors; canonical forms; bilinear, quadratic, and Hermitian forms; selected applications. | Prereq: jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in Math 341(P); or grad st.

537 Number Theory. 3 cr. U/G. Number theoretic functions; distribution of primes; Diophantine approximation; partitions; additive number theory; quadratic reciprocity. | Prereq: jr st, Math 232(P) & 341(241)(P); or grad st.

537 (effective 09/02/2015) Number Theory. 3 cr. U/G. Number theoretic functions; distribution of primes; Diophantine approximation; partitions; additive number theory; quadratic reciprocity. | Prereq: jr st, grade of C or better in both Math 232(P) & 341(P); or grad st.

551 Elementary Topology. 3 cr. U/G. General theory of point sets in Euclidean spaces, with emphasis on topology of two-dimensional and three-dimensional spaces; elementary notions of metric spaces; applications. | Prereq: jr st & either Math 521(P) or 529(P); or grad st.

553 Differential Geometry. 3 cr. U/G. The theory of curves and surfaces by differential methods. | Prereq: jr st, Math 233(P), 234(P) & 341(241)(P); or grad st.

553 (effective 09/02/2015) Differential Geometry. 3 cr. U/G. The theory of curves and surfaces by differential methods. | Prereq: jr st, grade of C or better in all of Math 233(P), 234(P) & 341(P); or grad st.


571 (effective 01/25/2016) Introduction to Probability Models. 3 cr. U/G. Probability review, Markov chains in discrete and continuous time. Random walks, branching processes, birth and death processes. Queuing theory. Applications to physical sciences, engineering, mathematics. | Prereq: jr st; grade of C or better in Math 233(P); grade of C or better in Math/ElecEng 234(P) or in both Math 240(P) & 320(P); & one calculus-based course in statistics or probability at the 300 level or above; or grad st.

581 Introduction to the Theory of Chaotic Dynamical Systems. 3 cr. U/G. Iterated mappings, one parameter families, attracting and repelling periodic orbits, topological transitivity, Sarkovski's theorem, chaos, bifurcation theory, period doubling route to chaos, horseshoe maps, attractors. | Prereq: jr st & Math 521(P), 529(P) or 621(P), or cons instr; or grad st.

591 Undergraduate Seminar: (Subtitled). 1 cr. U. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered. | Retakable w/chg in topic to 4 cr max. Prereq: jr st; cons instr.

599 Capstone Experience. 1 cr. U. Student writes a paper under supervision of an advisor on an approved topic not covered in the student's regular course work. | Prereq: sr st; writ cons instr & dept chair.

601 Advanced Engineering Mathematics I. 3 cr. U/G. Sequences and series, elementary complex analysis; Fourier series; linear and nonlinear ordinary differential equations; matrix theory, elementary functional analysis; elementary solution of partial differential equations. | Prereq: jr st; Math 234(P) or ElecEng 234(P); 3 cr Math at 300-level or above; or cons instr.

601 (effective 09/02/2015) Advanced Engineering Mathematics I. 3 cr. U/G. Sequences and series, elementary complex analysis; Fourier series; linear and nonlinear ordinary differential equations; matrix theory, elementary
<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>615</td>
<td>Numerical Solution of Partial Differential Equations</td>
<td>3</td>
<td>U/G. Finite difference solution of elliptic boundary value problems and of evolution problems; solution of hyperbolic conservation laws; finite volume methods; finite element methods.</td>
</tr>
<tr>
<td>617</td>
<td>Optimization</td>
<td>3</td>
<td>U/G. Unconstrained and constrained optimization: linear, nonlinear, and dynamic programming; barrier, penalty, and Lagrangian methods; Karush-Kuhn-Tucker theory, quadratic, and sequential quadratic programming; evolutionary algorithms.</td>
</tr>
<tr>
<td>621</td>
<td>Introduction to Analysis</td>
<td>3</td>
<td>U/G. Topology of Euclidean space; continuity; differentiation of real and vector-valued functions; Riemann-Stieltjes integration.</td>
</tr>
<tr>
<td>622</td>
<td>Introduction to Analysis</td>
<td>3</td>
<td>U/G. Continues Math 621. Sequences and series of functions; uniform convergence; power series; functions of several variables; inverse and implicit function theorems; differential forms; Stokes' theorem.</td>
</tr>
<tr>
<td>623</td>
<td>Complex Analysis</td>
<td>3</td>
<td>U/G. Complex numbers; definition and properties of analytic functions of a complex variable; conformal mapping; calculus of residues; applications to mathematics and physics.</td>
</tr>
<tr>
<td>631</td>
<td>Modern Algebra</td>
<td>3</td>
<td>U/G. Group theory, including normal subgroups, quotients, permutation groups, Sylow's theorems, Abelian groups; field theory; linear algebra over general fields.</td>
</tr>
<tr>
<td>632</td>
<td>Modern Algebra</td>
<td>3</td>
<td>U/G. Continuation of Math 631. Ring theory, including ideals, quotient rings, Euclidean rings, polynomial rings, unique factorization; modules, including vector spaces, linear transformations, canonical forms; bilinear forms.</td>
</tr>
<tr>
<td>675</td>
<td>Topics in Modern Mathematics: (Subtitled)</td>
<td>3</td>
<td>U/G. Instructor and student presentations of modern topics. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.</td>
</tr>
<tr>
<td>699</td>
<td>Independent Reading</td>
<td>1-3</td>
<td>U. See Advanced Independent Study. For further information, consult dept. chair.</td>
</tr>
</tbody>
</table>

*This course information produced at 01:00 on 07/30/2015.*
194 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshman. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

215 Elementary Statistical Analysis. 3 cr. U. Elementary probability theory; descriptive statistics; sampling distributions; basic problems of statistical inference including estimation; tests of statistical hypothesis in both one- and two- sample cases. Prereq: satisfaction of Quantitative Literacy Part A GER.

278 (effective 01/25/2016) Discrete Probability and Statistics for Elementary Education Majors. 3 cr. U. Random experiments; histograms; sample spaces; equally likely outcomes for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; max likelihood estimation & inference. Math 278 and MthStat 278 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in Math 176(P) or cons instr.

278 Discrete Probability and Statistics for Elementary Education Majors. 3 cr. U. Random experiments; histograms; sample spaces; equally likely outcomes for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; max likelihood estimation & inference. Math 278 and MthStat 278 are jointly offered; they count as repeats of one another. Prereq: Math 176(P) or cons instr.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Prerequisites</th>
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</thead>
<tbody>
<tr>
<td>465</td>
<td>Introductory Mathematical Statistics for Social Sciences and Education</td>
<td>3 cr. U/G</td>
<td>Probability distributions; parameter estimation and confidence intervals; hypothesis testing; applications. Not open for cr to students w/cr in MthStat 467, 362, or for grad cr in math. Not open for cr toward major in math except in School of Education. Prereq: jr st; Math 211(P) or 232(P).</td>
</tr>
<tr>
<td>467</td>
<td>Introductory Statistics for Physical Sciences and Engineering Students</td>
<td>3 cr. U/G</td>
<td>Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing, parameter estimation; experimental design; regression analysis. Not open for cr for Math majors or students with cr in MthStat 362 or 465. Ind Eng 467 &amp; MthStat 467 are jointly offered &amp; count as repeats of one another. Prereq: jr st; Math 233(P).</td>
</tr>
<tr>
<td>489</td>
<td>Internship in Mathematical Statistics, Upper Division</td>
<td>1-6 cr. U</td>
<td>Application of advanced principles of mathematical statistics in a business, organizational, educational, governmental, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 6 cr 300-level or above in Math or MthStat; 2.5 gpa in the major; cons supervising faculty member.</td>
</tr>
<tr>
<td>499</td>
<td>Ad Hoc: (Subtitled)</td>
<td>1-6 cr. U</td>
<td>Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.</td>
</tr>
<tr>
<td>562</td>
<td>Design of Experiments</td>
<td>3 cr. U/G</td>
<td>Latin squares; incomplete block designs; factorial experiments; confounding; partial confounding; split-plot experiments; fractional replication. Prereq: jr st; MthStat 362(P); Math 234(P) or 240(P).</td>
</tr>
<tr>
<td>563</td>
<td>Regression Analysis</td>
<td>3 cr. U/G</td>
<td>Straight line, polynomial and multiple regression; multiple and partial correlation; testing hypotheses in regression; residual analysis. Prereq: jr st; MthStat 467(P) or 362(P).</td>
</tr>
<tr>
<td>565</td>
<td>Nonparametric Statistics</td>
<td>3 cr. U/G</td>
<td>Sign, rank and permutation tests; tests of randomness and independence; methods for discrete data and zeroes and ties; power and efficiency of nonparametric tests. Prereq: jr st; MthStat 362(P).</td>
</tr>
<tr>
<td>566</td>
<td>Computational Statistics</td>
<td>3 cr. U/G</td>
<td>Basics of programming and optimization techniques; resampling, bootstrap, and Monte Carlo methods; design and analysis of simulation studies. Prereq: jr st; MthStat 362(P) or cons instr.</td>
</tr>
<tr>
<td>568</td>
<td>Multivariate Statistical Analysis</td>
<td>3 cr. U/G</td>
<td>Multivariate normal distribution; Wishart distribution; Hotelling's T2; multivariate normal distribution; multivariate analysis of variance; classification</td>
</tr>
</tbody>
</table>
568 Multivariate Statistical Analysis. 3 cr. U/G. Multivariate normal distribution; Wishart distribution; Hotelling's T2; multivariate normal distribution; multivariate analysis of variance; classification problems. Prereq: jr st; MthStat 362(P); Math 234(P) or 240(P).

591 Foundations of Professional Practice in Actuarial Science. 1 cr. U. Lecture and discussions on professional topics such as health, pension, life, casualty, regulation. Retakable for cr once. Prereq: completion of actuarial sci prep curric or cons instr.

592 Actuarial Science Laboratory I: Probability, Finance, and Economics. 1 cr. U. Fundamental probability tools for quantitatively assessing risk integrated with economic and financial concepts; application of tools to actuarial problems; introduction to insurance and risk management. Prereq: C or better in Math 311(P) or MthStat 361(P) or cons instr.

593 Actuarial Science Laboratory II: Interest Theory, Finance, and Economics. 1 cr. U. Fundamental interest theory tools integrated with economic and financial concepts; financial mathematics; financial instruments; calculating present and accumulated values for various streams of cash flow. Prereq: C or better in Math 311(P) or MthStat 361(P) or cons instr.

596 Actuarial Statistics I: Fitting of Loss Models. 3 cr. U/G. Statistical modeling of insurance data. Model specification, fitting and validation. Measures of confidence for model-based decisions. Prereq: jr st; B- or better in each Math 234(P) and MthStat 362(P); CompSci 151(P) or 201(P); or cons instr.

597 Actuarial Statistics II: Credibility, Risk Measures and Related Topics. 3 cr. U/G. Statistical techniques for insurance data. Credibility and ratemaking. Risk measures. Dependent risks and copulas. Simulations. Prereq: jr st; B- or better in each Math 234(P) and MthStat 362(P); CompSci 151(P) or 201(P); or cons instr.

691 Actuarial Models I: Life Contingencies. 3 cr. U/G. Modeling and valuation of cash flows dependent on death, survival and other random events. Survival models for single and multiple risks. Life insurances and annuities. Prereq: jr st; B- or better in each Math 571(P) and Math 311(P); or cons instr.

692 Actuarial Models II: Financial Economics. 3 cr. U/G. Modeling and managing of financial risks. Interest rate models. Valuation of derivatives securities. Risk management. Prereq: jr st; B- or better in each Math 571(P) and Math 311(P); or cons instr.

This course information produced at 01:00 on 07/30/2015.
101 (effective 09/02/2015) Computational Tools for Engineers. 2 cr. U. Introduction to the use of spreadsheets and equation solvers. Basic engineering and financial applications using these tools.|Prereq: Math 231(C) or 221(C).

101 Computational Tools for Mechanical Engineers. 1 cr. U. Introduction to the use of spreadsheets and equation solvers. Basic engineering and financial applications using these tools.|Prereq: none.

110 Engineering Fundamentals I. 4 cr. U. Introduction to engineering disciplines, problem-solving, visualization, technical communication, and data collection and analysis.|Prereq: Math 231(C) or Math 225(C), admis to College of Engineering & Applied Science.


150 How Things Work: Understanding Technology. 3 cr. U. An introductory course that explains the technology that affects our everyday life. Topics include: automobiles, computers, telephone, radio, television, etc.|Prereq: none.

301 Basic Engineering Thermodynamics. 3 cr. U. Basic energy concepts and definitions; First and Second Laws of Thermodynamics; ideal and real gases; thermodynamic properties; introductory cycle analysis.|Prereq: Math 233(P) & Physics 209(P).

320 Introduction to Fluid Mechanics. 3 cr. U. Basic law of fluid mechanics with applications to engineering problems and with laboratory demonstrations.|Prereq: MechEng 301(C); ElecEng 234(P) & Civ Eng 202(P).

321 Basic Heat Transfer. 4 cr. U. Introduction to conduction, convection and radiation heat transfer; heat exchangers; mass transfer analogies; laboratory experiments.|Prereq: jr st; MechEng 301(P).

323 Fluid Mechanics Laboratory. 1 cr. U. Hands-on experiments involving applications of potential flows, boundary layer flows, gas dynamics, aerodynamics, and fluid power.|Prereq: jr st; MechEng 320(P).

360 Mechanical Design I. 3 cr. U. Kinematic and dynamic analysis of machine members and design applications to linkages, cams, gears, machine balancing and mechanical systems subject to various constraints.|Prereq: Ind Eng 101(P) or MechEng 111(P); CompSci 151(P) or 153(P) or 201(P); & Civ Eng 202(P).
360 (effective 01/25/2016) Mechanical Design I. 3 cr. U. Kinematic and dynamic analysis of machine members and design applications to linkages, cams, gears, machine balancing and mechanical systems subject to various constraints. Prereq: MechEng 101(P), 111(P); & Civ Eng 202(P).

366 (effective 01/25/2016) Design of Machine Elements. 4 cr. U. Design of mechanical components under steady and fatigue loads. Design of columns, shafts, fasteners, springs, bearings, gearing, etc. Mini-design projects. Prereq: MechEng 101(P), 111(P); MatEng 201(P); & Civ Eng 303(P).

366 Design of Machine Elements. 4 cr. U. Design of mechanical components under steady and fatigue loads. Design of columns, shafts, fasteners, springs, bearings, gearing, etc. Mini-design projects. Counts as a repeat of MechEng 365. Prereq: Ind Eng 210(P) or MechEng 111(P); MatEng 201(P) or 153(P) or 201(P); Civ Eng 202(P) & 303(P); & ElecEng 234(P).

370 Computer Aided Engineering Laboratory. 2 cr. U. Mechanical design and analysis using state of the art CADD, kinematics, and FEA computer tools. Prereq: MechEng 111(P) or MechEng 101(P) & Ind Eng 210(P); CompSci 151(P) or 153(P) or 201(P); Civ Eng 202(P) & 303(P); & ElecEng 234(P).

370 (effective 01/25/2016) Computer Aided Engineering Laboratory. 2 cr. U. Mechanical design and analysis using state of the art CADD, kinematics, and FEA computer tools. Prereq: MechEng 101(P) & 111(P); Civ Eng 202(P) & 303(P); & ElecEng 234(P).

402 Thermo-Fluid Engineering. 3 cr. U. Analysis and design of systems involving applications of thermodynamics, heat transfer, and fluid mechanics. Applications include heat exchangers, power generation, refrigeration systems, and environmental control. Prereq: MechEng 320(P) & 321(P).

405 Product Realization. 3 cr. U/G. This interdisciplinary course (engineering and art students) considers the diverse aspects of the product realization process. Art 405, MechEng 405, & Ind Eng 405 are jointly offered; they count as repeats of one another. Prereq: jr st & admis to Art & Design prog or IAT prog; or Ind Eng 350(P), 360(P), 370(P); or MechEng 321(P), 360(P), 366(P), 370(P); or grad st & cons instr.

411 Heat Transfer. 3 cr. U/G. Concepts of heat transfer including conduction, convection, and radiation; steady-state and transient conduction; laminar and turbulent convection; phase changes; black-body and real surface radiation; heat exchangers. Prereq: jr st; MechEng 321(P).

415 Modern Thermomanning Processes. 3 cr. U/G. An introduction to thermal management and techniques applied to chemical vapor deposition, welding, thermal spraying, and machining (cutting and grinding). Prereq: jr st; Civ Eng 303(P), MechEng 321(P) or equiv, or cons instr.


425 Aerodynamics of Wind Turbines. 3 cr. U/G. Introductory and intermediate wind turbine aerodynamics; wind and wind turbine interaction in energy transmission. Prereq: jr st; MechEng 320(P) or cons instr.

430 Energy Modeling. 3 cr. U/G. Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software. Jointly offered with and counts as repeat of ElecEng 430. Prereq: jr st; or cons instr.

432 Internal Combustion Engines. 3 cr. U/G. Thermodynamic principles of internal combustion engines; cycles, combustion, engine operation; carburation, ignition, performance analysis; engine balancing; super charging. Prereq: jr
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Restrictions/Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>434</td>
<td>Air Conditioning System Design</td>
<td>3</td>
<td>The design of systems for heating and cooling spaces. Selection and design of central heating, cooling and energy distribution systems. Prereq: Jr st; MechEng 321(P), Ind Eng 210(P).</td>
</tr>
<tr>
<td>436</td>
<td>Solar Engineering</td>
<td>3</td>
<td>Estimation of energy needs for solar heating and cooling systems for buildings; insolation; solar collector/energy storage design; applications to space heating/cooling, water heating. Prereq: Jr st; MechEng 301(P).</td>
</tr>
<tr>
<td>438 (337)</td>
<td>Mechanical Engineering Experimentation</td>
<td>3</td>
<td>Training and understanding data acquisition systems; experiment planning; sensor calibration; professional report writing and communication; industrial projects. Prereq: Sr st or Cons instr; ElecEng 301(P); Ind Eng 467 or MthStat 467(P); MechEng 321(P), 360(P), 366(P).</td>
</tr>
<tr>
<td>451</td>
<td>Applied Optics in Engineering</td>
<td>3</td>
<td>Principles of geometric and physical optics. Introduction to lasers. Topics from current engineering uses of optics, including measurement systems and laser machining. Prereq: Sr st; Physics 210(P) or Cons instr.</td>
</tr>
<tr>
<td>456</td>
<td>Metal Casting Engineering</td>
<td>3</td>
<td>Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design. Prereq: MechEng 456 and MatlEng 456(421) are jointly offered; they count as repeats of one another. Prereq: Jr st; MatlEng 201(P).</td>
</tr>
<tr>
<td>457</td>
<td>Engineering Composites</td>
<td>3</td>
<td>Study of the structure-property relationships in composite materials. Properties of fibers and other reinforcements. Metal, polymer and ceramic matrix composites. Prereq: MechEng 457 and MatlEng 457(455) are jointly offered; they count as repeats of one another. Prereq: Jr st; MatlEng 201(P).</td>
</tr>
<tr>
<td>460</td>
<td>Nanomaterials and Nanomanufacturing</td>
<td>3</td>
<td>Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology. Prereq: MechEng 460 &amp; MatlEng 460 are jointly offered; they count as repeats of each other. Prereq: Jr st; MatlEng 201(P).</td>
</tr>
<tr>
<td>461</td>
<td>Intermediate Kinematics and Dynamics</td>
<td>3</td>
<td>Analysis and synthesis of planar spacial mechanisms, using computational and analytical methods. Dynamics of machinery. Introduction to computer-aided design. Prereq: Jr st; MechEng 360(P).</td>
</tr>
<tr>
<td>463</td>
<td>Introduction to Finite Elements</td>
<td>3</td>
<td>Generation and assembly of finite element matrices in one and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow. Not open to students with cr in Civ Eng 463(ER). Prereq: Jr st; ElecEng 234(P), Civ Eng 303(P); MechEng 320(C), 311(C) or 321(C).</td>
</tr>
</tbody>
</table>
465 **Friction and Wear.** 3 cr. U/G. Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement. [Not open to students who have cr in MatlEng 465, which is identical to MechEng 465. Prereq: jr st; MatlEng 201(P)].


469 **Introduction to Biomechanical Engineering.** 3 cr. U/G. Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine. [MechEng 469 & Civ Eng 469 are jointly offered and count as repeats of one another. Prereq: Civ Eng 202(P) & 303(P); or cons instr.]

472 **Introduction to Wind Energy.** 3 cr. U/G. Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection. [MechEng 472 & ElecEng 472 are jointly offered; they count as repeats of one another. Prereq: jr st; or cons instr.]

474 **Introduction to Control Systems.** 4 cr. U/G. Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains. [Prereq: sr st; ElecEng 301(P); a grade of C or better in ElecEng 234(P) & Civ Eng 202(P)].

475 **Vibrations in Mechanical Design.** 3 cr. U/G. Integrated treatment of mathematical modeling and analysis of mechanical systems, analysis of vibrations and performance under different loading conditions. [Prereq: sr st; Civ Eng 202(P), ElecEng 234(P)].

476 **Introduction to Robotics.** 3 cr. U/G. Fundamentals of manipulators, sensors, actuators, end-effectors and product design for automation, computer vision and pattern recognition. [Prereq: ElecEng 234(P), MechEng 360(P)].

479 **Control and Design of Mechatronic Systems.** 3 cr. U/G. Understanding interfacing of mechanical systems using electro-mechanical components; conceptual design and analysis of high performance computer controlled mechanical systems; prototyping of mechatronic systems. [Prereq: sr st or cons instr; ElecEng 474(402)(P) or MechEng 474(P)].

490 **Topics in Mechanical Engineering: (Subtitled).** 1-3 cr. U/G. Recent theoretical and applied topics in mechanical engineering. [May be retaken with change in topic to max of 9 cr. Prereq: jr st & cons instr.]

496 (396) **Senior Design Project.** 3 cr. U. Engineering design project in a simulated industrial environment. Student design team works on a problem in collaboration with college faculty and vendors. Formal report writing. [Prereq: MechEng 321(P), 360(P), 366(P), & 370(P)].

542 **Introduction to Technology Entrepreneurship.** 3 cr. U. Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities. [Counts as repeat of Bus Adm 495 or Mech Eng 490 with same topic. Jointly offered with & counts as repeat of Bus Adm 542. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.]

543 **Introduction to Technology Management and Innovation.** 3 cr. U. Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects. [Counts as repeat of Bus Adm 495 with same topic. Jointly offered with & counts as repeat of Bus Adm 543. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major.]

544 **New Product Development.** 3 cr. U/G. Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development
teams.|Counts as repeat of Bus Adm 795 with same topic; Jointly offered with & counts as repeat of Bus Adm 544.
Prereq: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.

**546 Global Innovation Management. 3 cr. U/G.** Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.|Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of Bus Adm 546. Prereq: jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.

**548 Technology Venturing Project. 3 cr. U.** A capstone course for students to demonstrate their knowledge and skills related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures.|Jointly offered with & counts as repeat of Bus Adm 548. Prereq: jr st & admis to Tech Entrep Cert program or admis to business or engineering major; Bus Adm/Mech Eng 542(P).

**574 (478) Intermediate Control Systems. 3 cr. U/G.** State space; frequency domain methods of modeling, analysis and design of control systems; digital control; and multivariate systems.|ElecEng 574(503) & MechEng 574(478) are jointly offered & count as repeats of each other. Not open for cr to students who have cr in ElecEng 503(ER) or MechEng 503(ER). Prereq: sr st; Mecheng 474(P) or ElecEng 474(402)(P); or grad st.

**584 Biodynamics of Human Motion. 3 cr. U/G.** Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab.|Prereq: jr st; ElecEng 234(P); Civ Eng 202(C).

**699 Independent Study. 1-3 cr. U/G.** |Limited to max of 6 cr applied toward undergrad degree. Prereq: jr st; cons instr.

This course information produced at 01:00 on 07/30/2015.
1 Theory Fundamentals. 2 cr. U. Basic music theory covering written proficiency at an introductory level. For music majors needing remedial work. Not for fulfillment of curriculum requirements. | Prereq: Music major or cons instr.

30 University Band. 1 cr. U. A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students. | Music 30 & 31 may be retaken to combined max of 10 sem. Prereq: Music major.

31 University Band. 2 cr. U. A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students. | Music 30 & 31 may be retaken to combined max of 10 sem. Prereq: non-Music major.

40 Symphony Band. 1 cr. U. Performs symphonic works for band, performing regularly on campus, statewide tours and national conventions. | Music 40 & 41 may be retaken to combined max of 10 sem. Prereq: Music major, audition; & cons instr.

41 Symphony Band. 2 cr. U. Symphony band performs symphonic works for band, performing regularly on campus, statewide tours and national conventions. | Music 40 & 41 may be retaken to combined max of 10 sem. Prereq: non-Music major; audition; & cons instr.

42 Wind Ensemble. 1 cr. U. Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours. | Music 42 & 43 'Wind Ensemble' may be retaken to combined max of 10 sem. Prereq: Music major; audition; & cons instr.

43 Wind Ensemble. 2 cr. U. Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours. | Music 42 & 43 'Wind Ensemble' may be retaken to combined max of 10 sem. Prereq: non-Music major; audition; & cons instr.

44 University Choir. 1 cr. U. Large mixed chorus rehearses and performs choral masterpieces from all periods of choral literature, utilizing instrumentalists when appropriate. Voice placements first week of each new semester. | Music 44 & 45 may be retaken to combined max of 10 sem. Prereq: Music major; cons instr; audition.

45 University Choir. 2 cr. U. Large mixed chorus rehearses and performs choral masterpieces from all periods of
choral literature, utilizing instrumentalists when appropriate. Voice placements during first week of each new semester. Music 44 & 45 may be retaken to combined max of 10 sem. Prereq: non-Music majors; cons instr; audition.

51 Men's Chorus. 1 cr. U. Open to UWM students, staff, and community members. Literature includes classical, contemporary, glee, and barbershop styles. Performances are given throughout the semester. May be retaken to a max of 10 sem. Prereq: none.

52 Women's Chorus. 1 cr. U. Choir rehearses and performs a wide variety of choral music from all eras. Voice placements 1st wk each sem. Music 52 & 53 may be retaken to combined max of 10 sem. Prereq: Music major; cons instr; audition.

53 Women's Chorus. 2 cr. U. Choir rehearses and performs a wide variety of choral music from all eras. Voice placements 1st wk each sem. Music 52 & 53 may be retaken to combined max of 10 sem. Prereq: non-Music major; cons instr; audition.

56 Concert Chorale. 1 cr. U. This highly select mixed ensemble performs advanced level music from all periods of choral literature, utilizing instrumentalists when appropriate. Auditions take place during the first week of each new semester. Music 56 & 57 may be retaken to combined max of 10 sem. Prereq: Music major; audition; & cons instr.

57 Concert Chorale. 2 cr. U. This highly select mixed ensemble performs advanced level music from all periods of choral literature, utilizing instrumentalists when appropriate. Auditions take place during the first week of each new semester. Music 56 & 57 may be retaken to combined max of 10 sem. Prereq: non-Music major; audition; & cons instr.

60 Vocal Jazz Ensemble. 1 cr. U. Jazz arrangements of standard popular songs performed with rhythm section accompaniment. May be retaken to max of 8 sem. Open to all music majors of the university. Prereq: open by audition only & by cons instr.

61 Vocal Jazz Ensemble. 2 cr. U. Jazz arrangements of standard popular songs performed with rhythm section accompaniment. May be retaken to max of 8 sem. Open to all non-music majors of the university. Prereq: open by audition only & by cons instr.

62 Gospel Choir. 1 cr. U. The gospel choir performs the music of the African-American culture in its many styles and genres. Auditions 1st week each sem. May be retaken to max of 10 sem. Prereq: cons instr; audition.

81 University Community Orchestra. 2 cr. U. Composed primarily of non-music majors and community members; provides a continuing opportunity for rehearsal and performance. Music 81 & 181 may be retaken to combined max of 10 sem. Prereq: non-music major.

82 Symphony Orchestra. 2 cr. U. This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries. Music 182 & 082 may be retaken to combined max of 10 sem. Prereq: non-Music major; audition; & cons instr.

83 Chamber Orchestra. 2 cr. U. An exploration of the literature for the chamber orchestra through rehearsal and performance. For non-Music majors who meet audition req. May be retaken for cr but not to exceed 16 cr (8 sem). Prereq: cons instr; non-Music majors only.

100 Introduction to Classical Music. 3 cr. U. A guide to musical enjoyment and understanding, including listening experiences in the various styles and forms of music, through assigned reading, the use of recorded music, sound films and attendance at concerts. Not accepted as part of a Music major. Prereq: none.

101 Fundamentals of Music. 3 cr. U. An activities approach to music fundamentals through singing, playing, listening, note reading and creativity for the general university student. Not accepted as part of a Music major. Prereq: none.

102 American Popular Music. 3 cr. U. A guide to understanding and enjoying American popular music from 1900 to
the present. Students survey all popular genres and focus on chosen style. Prereq: none.

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<thead>
<tr>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>106</td>
<td>Foundations of Music</td>
<td>0 cr.</td>
<td>U. Engage music major freshman in active discussion in academic and abstract ways necessary to formal music study. Fee for 1 cr assessed. Satisfactory/Unsatisfactory only. Prereq: Freshman Music Majors only.</td>
</tr>
<tr>
<td>107</td>
<td>Music Convocation</td>
<td>0 cr.</td>
<td>U. A general assembly of the Department of Music held Fridays at 12:00 pm during the academic year. Includes musical presentations by Music Department faculty and students as well as guest events. Fee for 1 cr assessed. Satisfactory/Unsatisfactory only. Prereq: Music majors only.</td>
</tr>
<tr>
<td>108</td>
<td>The Concert Experience</td>
<td>3 cr.</td>
<td>U. Meets, in part, concurrently with the Music Department Convocation (or similar concerts), concentrates on the concert as an event: history, traditions, form, make-up, and interpretation. May not be used as part of the music req for music majors. Prereq: none.</td>
</tr>
<tr>
<td>120</td>
<td>Composition Colloquium: (Subtitled)</td>
<td>0 cr.</td>
<td>U. Guest lectures and workshops with visiting composers and performers presenting current compositional and aesthetic techniques. Fee for 1 cr assessed. May be retaken; 4 sem minimum required for composition majors. Prereq: Music major or cons instr.</td>
</tr>
<tr>
<td>123</td>
<td>Aural Theory I</td>
<td>1 cr.</td>
<td>U. Basic study of sight singing and dictation in diatonic music: solfege, diatonic melodies, primary harmonies, basic rhythms and beat divisions. Aural application of Music 127. Prereq: theory placement exam; Music major; Music 127(C) &amp; Music 001(P) with grade of &quot;B&quot; or better or equiv.</td>
</tr>
<tr>
<td>124</td>
<td>Aural Theory II</td>
<td>1 cr.</td>
<td>U. The singing and dictation of melodies, progressions, and counterpoint with chromatic alteration, modulation, complex rhythmic patterns, 7th chords and inversions. Aural application of Music 128. Prereq: Music Major; Music 128(C), 123(P) &amp; 127(P) with grade of 'C-' or better or equiv.</td>
</tr>
<tr>
<td>127</td>
<td>Materials of Theory I</td>
<td>2 cr.</td>
<td>U. Basic study of the elements and diatonic organization of music through music literature. Prereq: theory placement exam; Music major; Music 123 (C) &amp; Music 001(P) with grade of ‘C-' or better or equiv.</td>
</tr>
<tr>
<td>128</td>
<td>Materials of Theory II</td>
<td>3 cr.</td>
<td>U. Intermediate study of the elements and chromatic organization of music through music literature. Prereq: Music Major; Music 124(C) &amp; 123(P); &amp; 127(P) with grade of ‘C-' or better or equiv.</td>
</tr>
<tr>
<td>130</td>
<td>Beginning Piano</td>
<td>3 cr.</td>
<td>U. A practical introduction to the piano and musical notation, intended to serve as a sound foundation for further study. May be retaken to max of 6 cr. Prereq: none.</td>
</tr>
<tr>
<td>131</td>
<td>Intermediate Piano</td>
<td>3 cr.</td>
<td>U. The varying uses of the piano is continued and expanded through reading, technique, interpretation, and theory as based on materials presented in Music 130. May be retaken to max of 6 cr. Prereq: Music 130(341)(P); cons instr.</td>
</tr>
<tr>
<td>140</td>
<td>Class Voice Level I</td>
<td>3 cr.</td>
<td>U. The group study of singing, including posture, breathing, resonance, range and projection through vocal exercises, varied song repertoire and solo singing. May be retaken to max of 4 cr. Prereq: some knowledge of music helpful but not required; cons instr.</td>
</tr>
<tr>
<td>141</td>
<td>Class Voice Level II</td>
<td>3 cr.</td>
<td>U. Continuation for students completing Class Voice Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues. Prereq: Music 140(P), or cons instr; &amp; ability to read notation.</td>
</tr>
<tr>
<td>142</td>
<td>Class Voice for Musical Theater Level I</td>
<td>2 cr.</td>
<td>U. Fundamentals of vocal technique, including audition preparation and understanding of Musical Theater repertoire and style. Prereq: Musical Theatre majors; cons. instr.</td>
</tr>
<tr>
<td>143</td>
<td>Class Voice for Music Theatre Level II</td>
<td>2 cr.</td>
<td>U. Continuation of Class Voice for Musical Theatre Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues. Prereq: Music 142(P), or cons instr.</td>
</tr>
</tbody>
</table>
150 (345) **Beginning Guitar.** 3 cr. U. Beginning class instruction on guitar as an accompanying instrument for folk and pop songs. Basic chording, strumming, and finger picking. May be retaken to max of 6 cr. Prereq: none.

151 **Intermediate Guitar I.** 3 cr. U. Intermediate instruction on guitar. Finger picking, barre chord, bass runs, melody playing, and reading music. May be retaken to max of 6 cr. Prereq: Music 150(345)(P); or cons instr.

152 **Intermediate Guitar II.** 3 cr. U. Students learn pieces ranging from popular to classical repertoire further developing position playing, moveable chord forms, solo arrangements and accompaniment, accommodating students at a variety of levels. May be retaken to max of 6 cr. Prereq: Music 151(P), or cons instr; & ability to read notation.

181 **University Community Orchestra.** 1 cr. U. Provides a continuing opportunity for rehearsal and performance for Music Majors playing secondary instrument(s). Music 81 & 181 may be retaken to combined max of 10 sem. Prereq: Music Major playing secondary instrument(s).

182 **Symphony Orchestra.** 1 cr. U. This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries. Music 182 & 82 may be retaken to combined max of 10 sem. Prereq: Music major; audition; & cons instr.

183 **Chamber Orchestra.** 1 cr. U. An exploration of the literature for the chamber orchestra through rehearsal and performance. For music majors who meet the audition requirements. Prereq: Music majors only; audition; cons instr.

206 **Jazz Fundamentals.** 2 cr. U. Introduction to rhythmic, melodic and harmonic materials related to jazz. Prereq: admis to Jazz Studies prog or cons instr.

211 **General History of Western Music I.** 3 cr. U. An introduction to the development of musical styles in western music through the end of the 17th century. Prereq: soph st & 2 sem of music theory.

212 **General History of Western Music II.** 3 cr. U. The development of music through the 18th and 19th centuries, correlating period styles with contemporary history and other arts. Prereq: soph st, 3 sem of music theory, & Music 211(P).

220 **Introduction to Computers and Music.** 3 cr. U. Introduction to digital audio, acoustics, psychoacoustics, electronic music composition, and history. Survey and application of software audio production tools through individual creative projects. Prereq: Music major; previous experience in computers & music; or cons instr.

225 **Materials of Theory III.** 3 cr. U. Advanced study of the elements and extended chromatic organization of music through music literature. Prereq: Music Major; Music 226(C) & Music 124(P), & 128(P) with grade of ‘C-’ or better or equiv; successful completion of QL-A; or cons instr.

226 **Aural Theory III.** 1 cr. U. Continuation of Music 124. Advanced work developing sight-singing and melodic, contrapuntal, and harmonic dictation as related to music literature. Aural application of Music 225. Prereq: Music Major; Music 225(C); 124(P) & 128(P) with grade of ‘C-’ or better or equiv.

230 **Form Analysis.** 3 cr. U. Study of the basic cells used for evolving musical structures. The two-part, three-part, and five-part song forms are analyzed, theme and variation form, song form with trio, sonatina form, sonata allegro form, and the symphonic, concerto, and chamber music structures are discussed and analyzed. Prereq: Music 225(P) & 226(P) with grade of ‘C-’ or better or equiv.

244 (effective 09/02/2015) **Basic Diction in Singing.** 1 cr. U. Principles of the international phonetic alphabet as they apply to the english language and the singing of assigned vocal repertoire. Prereq: admis to Musical Theatre prog; or cons instr.

244 **Basic Diction in Singing.** 1 cr. U. Principles of the international phonetic alphabet as they apply to the english
language and the singing of assigned vocal repertoire.|Prereq: soph st & cons instr.

245 (effective 09/02/2015) Basic and Italian Lyric Diction. 1 cr. U. Principles of Basic and Italian lyric diction as taught through the use of the international phonetic alphabet, and the singing of assigned vocal repertoire.|Prereq: Music major; or cons instr.

245 Italian Diction in Singing. 1 cr. U. Principles of Italian lyric diction as taught through the use of the international phonetic alphabet, and the singing of assigned vocal repertoire.|Prereq: Music 244(P) or cons instr.

246 German Diction in Singing. 1 cr. U. Principles of German lyric diction as taught through the use of the international phonetic alphabet, and the singing of assigned vocal repertoire.|Prereq: soph st; music 244(P) & 245(P); & cons instr.

246 (effective 01/25/2016) German and French Lyric Diction. 1 cr. U. Principles of German and French lyric diction as taught through use of the international phonetic alphabet, and the singing of assigned vocal repertoire.|Prereq: music major; or cons instr.

247 French Diction in Singing. 1 cr. U. Principles of French lyric diction as taught through use of the International Phonetic Alphabet and the singing of assigned vocal repertoire.|Prereq: soph st; Music 244(P) & 245(P); & cons instr.


259 Accompanying. 2 cr. U. The piano as an accompanying instrument; study of basic principles of accompanying; sight reading and standard repertoire; transposition; laboratory experience.|Prereq: jr st or cons instr.

262 Ensemble - Piano. 1-2 cr. U. Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.|Open to advanced performers on piano. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

263 Ensemble - Beginning Percussion. 1 cr. U. An introduction of percussion instruments to non-percussion music majors. Topics include: technique, percussion in world music, care and maintenance, composing and arranging, repertoire.|Prereq: Music major.

266 Ensemble - Woodwind. 1-2 cr. U. Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartet, etc) of the last three centuries.|Open to advanced performers on woodwind. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

268 Ensemble - Brass. 1-2 cr. U. Designed to provide an opportunity for students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.|Open to advanced performers on brass. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. Prereq: cons instr.

271 Jazz Ensemble. 1 cr. U. A performance and laboratory group for the study of jazz ensemble techniques.|May be retaken to max of 10 cr. Prereq: cons instr.


274 Guitar Repertoire and Ensemble. 1 cr. U. Exploration of the guitar ensemble and solo literature. Performance laboratory.|May be retaken to combined max of 8 sem. Prereq: music majors or cons instr.

275 Keyboard Performance Repertoire. 1-2 cr. U. Section 1: piano. Section 2: organ. An analysis of applied piano or
organ literature, including representative works from all periods. | Prereq: jr st & cons instr.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>279</td>
<td>Special Studies in Music: (Subtitled)</td>
<td>1-3 cr. U.</td>
<td></td>
<td>Specific topic will be announced in the Schedule of Classes when offered.</td>
</tr>
<tr>
<td>280</td>
<td>Music Workshop: (Subtitled)</td>
<td>1-4 cr. U.</td>
<td></td>
<td>Titled upon announcement in the Schedule of Classes. May be retaken for cr. Prereq: to be announced for each offering</td>
</tr>
<tr>
<td>287</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr. U.</td>
<td></td>
<td>Studio and special studies designed to provide relevant course work for a study abroad program in music.</td>
</tr>
<tr>
<td>300</td>
<td>Literary Aspects of Rock and Roll</td>
<td>3 cr. U.</td>
<td></td>
<td>Examines the evolution of the Rock and Roll song as an original American literary musical art form.</td>
</tr>
<tr>
<td>301</td>
<td>Music Theory for Interdisciplinary Studies</td>
<td>3 cr. U.</td>
<td></td>
<td>An activities approach to music fundamentals through singing, playing, listening, note reading and creativity for interdisciplinary arts students.</td>
</tr>
<tr>
<td>302</td>
<td>Jazz Theory I</td>
<td>2 cr. U.</td>
<td></td>
<td>Beginning level study of jazz theory. Course will involve extensive composition, performance and analysis.</td>
</tr>
<tr>
<td>303</td>
<td>Jazz History</td>
<td>3 cr. U.</td>
<td></td>
<td>History of jazz from its conception to the present day.</td>
</tr>
<tr>
<td>304</td>
<td>Jazz Arranging</td>
<td>3 cr. U.</td>
<td></td>
<td>Basic jazz arranging techniques for various size ensembles.</td>
</tr>
<tr>
<td>306</td>
<td>Jazz Theory II</td>
<td>2 cr. U.</td>
<td></td>
<td>Advanced study of jazz theory. Course will involve extensive composition and analysis.</td>
</tr>
<tr>
<td>307</td>
<td>General History of Western Music III</td>
<td>3 cr. U.</td>
<td></td>
<td>The development of music at the end of the 19th century and throughout the 20th century, including art music in the western tradition and american popular and vernacular musics.</td>
</tr>
<tr>
<td>308</td>
<td>Selected Topics in Music History and Literature: (Subtitled)</td>
<td>3 cr. U/G.</td>
<td></td>
<td>An in-depth study of selected genres in western music, the composers and their works. Topic to be announced in Schedule of Classes.</td>
</tr>
<tr>
<td>310</td>
<td>Introduction to World Musics</td>
<td>3 cr. U/G.</td>
<td></td>
<td>Study of musical genres from selected world cultures with an emphasis on musical sound and structure, and performance in cultural context.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit</td>
<td>Prerequisites</td>
<td></td>
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</tr>
<tr>
<td>311</td>
<td>Music of the Baroque Era</td>
<td>3 cr.</td>
<td>U/G. A general or topical survey of music from the baroque era in which selected composers and their compositions will be studied.</td>
<td>Jr st; Music 211, 212, 307; 4 sem of music theory.</td>
</tr>
<tr>
<td>312</td>
<td>Music of the Classic Era</td>
<td>3 cr.</td>
<td>U/G. A general or topical survey of music from the classical era in which selected composers and their compositions will be studied.</td>
<td>Jr st; Music 211, 212, 307; 4 sem music theory.</td>
</tr>
<tr>
<td>313</td>
<td>Music of the Romantic Era</td>
<td>3 cr.</td>
<td>U/G. A general or topical survey of music from the romantic era in which selected composers and their compositions will be studied.</td>
<td>Jr st; Music 211, 212, 307; 4 sem music theory.</td>
</tr>
<tr>
<td>314</td>
<td>Music since 1900</td>
<td>3 cr.</td>
<td>U/G. A general or topical survey of music since 1900, in which selected composers and their compositions will be studied.</td>
<td>Jr st; Music 211, 212, 307; 4 sem music theory.</td>
</tr>
<tr>
<td>323</td>
<td>Instrumentation</td>
<td>3 cr.</td>
<td>U. Techniques of arranging for strings, woodwinds, brass, and percussion. Study of representative scores, demonstrations of individual instruments, arranging of suitable passages for each instrumental group.</td>
<td>Music 225(P), 226(P), 320(P), 220(P) for composition majors, (R) for others; or knowledge of computer music notation as determined by instr.</td>
</tr>
<tr>
<td>326</td>
<td>Advanced Aural Theory</td>
<td>1 cr.</td>
<td>U/G. Continuation of Aural Theory 226 with advanced work in the development of aural skills and dictation in linear and vertical aspects of diatonic, chromatic and atonal music.</td>
<td>Jr st; Music 225(P) &amp; 226(P).</td>
</tr>
<tr>
<td>327</td>
<td>Analog and Digital Synthesis I</td>
<td>3 cr.</td>
<td>U/G. Introduction to analog and digital electronic sound synthesis, recording and audio mixing, acoustics and electronic music history. Individual work in analog and digital music studios.</td>
<td>Jr st, music major; or cons instr; Music 220(R).</td>
</tr>
<tr>
<td>328</td>
<td>Digital Synthesis and Systems II</td>
<td>3 cr.</td>
<td>U/G. Application of digital sound media and advanced midi; computing, synthesis, synthesizers, sampling, digital recording and editing methods. Individual projects utilizing the digital music studios.</td>
<td>Jr st; Music major; Music 327(P); previous experience in computers &amp; music; or cons instr.</td>
</tr>
<tr>
<td>330</td>
<td>Improvisation I</td>
<td>1 cr.</td>
<td>U. Beginning application of rhythmic, melodic and harmonic materials related to jazz improvisation.</td>
<td>Admis to Jazz Studies prog or cons instr.</td>
</tr>
<tr>
<td>332</td>
<td>Piano Pedagogy I</td>
<td>3 cr.</td>
<td>U. Introduction to Piano Pedagogy; overview of learning theories and methodologies related to piano instruction; technical/musical skills and repertoire for the preschool to K5 pianist.</td>
<td>Piano Pedagogy or Performance Major or cons instr</td>
</tr>
<tr>
<td>333</td>
<td>Piano Pedagogy II</td>
<td>3 cr.</td>
<td>U. In-depth training for pianists in piano pedagogy. Teaching the elementary to late-elementary piano student and older beginners in individual and group settings.</td>
<td>Piano Pedagogy or Performance Major or cons instr.</td>
</tr>
<tr>
<td>348</td>
<td>Sight-Reading for Guitar II</td>
<td>1 cr.</td>
<td>U. Solutions for accurate sight-reading of style-specific repertoire.</td>
<td>Counts as repeat of Music 280 with same topic. Cons instr, Music major</td>
</tr>
<tr>
<td>349</td>
<td>Guitar History and Literature Survey</td>
<td>3 cr.</td>
<td>U. A guided analytical and historical survey of the music,</td>
<td></td>
</tr>
</tbody>
</table>
composers, performers, cultures, and literature for guitar from the sixteenth to twenty-first centuries. [Prereq: jr st; Music 226(P); 248(R), 348(R); cons instr.]

353 Conducting. 2 cr. U. Manual technique and rehearsal techniques for both choral and instrumental groups. Class forms a laboratory ensemble. [Prereq: jr st; Music major; Music 230(P) & cons instr.]

354 Instrumental Conducting. 2 cr. U. Continuation of Music 353 with emphasis on conducting techniques: study and analysis of orchestral or wind band scores, with practical application for music education and performance majors. [Prereq: Music 353(P) or 253(P)].

356 Music in Society. 3 cr. U. How music, musicians, and musical institutions function as an expression of basic human concerns and aspirations: past, present, and future. Lectures by department faculty and guest experts. [Prereq: none.]

357 Choral Conducting. 2 cr. U. Advanced techniques of gesture, score study, style periods and performance practice, rehearsal and vocal techniques. [Prereq: Music 353(P) or 253(P), & cons instr.]

361 (261) Ensemble - Piano. 1-2 cr. U. Opportunity for pianists to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. Open to advanced performers on piano. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. [Prereq: cons instr.]

365 (265) Ensemble - Woodwind. 1-2 cr. U. Opportunity for woodwind students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. Open to advanced performers on woodwind. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. [Prereq: cons instr.]

367 (267) Ensemble - Brass. 1-2 cr. U. Opportunity for brass students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. Open to advanced performers on brass. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. [Prereq: cons instr.]

369 (269) Ensemble - Strings. 1-2 cr. U. Opportunity for string students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. Open to advanced performers on stringed instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. [Prereq: cons instr.]

370 (270) Chamber Ensemble - Mixed. 1-2 cr. U. Opportunity for students of mixed instrument families to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries. Open to advanced performers of all instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr. [Prereq: cons instr.]

377 (277) Song Literature: Germany, France, Great Britain. 2 cr. U. Art songs of Great Britain, Germany and France through recordings, in-class performances and lectures. Given alternate years. [Music 377 & 378 may be taken in any sequence. Prereq: 2 yrs collegiate voice study & cons instr.]

377 (effective 09/02/2015) Song Literature I: Italy, Germany, France, Great Britain. 2 cr. U. Art songs and vocal literature of Italy, Great Britain, Germany and France through recordings, student performances and lectures. Given alternate years in fall semester. [Prereq: 2 yrs collegiate voice study & cons instr.]

378 Song Literature: United States and Select European Countries. 2 cr. U. Art songs of the United States and other European countries through recordings, in-class performances and lectures. Given alternate years in spring semester. [Music 377 & 378 may be taken in any sequence. Prereq: 2 yrs collegiate voice study & cons instr.]
378 (effective 09/02/2015) Song Literature II: United States and Select European Countries. 2 cr. U. Art songs and vocal literature of the United States, European countries, South America, and Spain through recordings, student performances and lectures. Given alternate years in spring semester. Given alternate years in spring semester.|Prereq: 2 yrs collegiate voice study & cons instr.

402 Jazz Combo. 1-2 cr. U. Study of jazz music's origin, development and styles from early forms to contemporary trends. Emphasis on playing various styles in sequential periods of jazz history.|May be retaken for cr. Prereq: cons instr. Jazz Studies majors enrol for 2 cr, all others enrol for 1 cr.

404 Improvisation III. 1 cr. U. Application of melodic and harmonic materials of jazz to the keyboard.|Prereq: Music 331(P).

405 Improvisation IV. 1 cr. U. Continued advanced application of rhythmic, melodic and harmonic materials related to jazz improvisation.|Prereq: Music 404(P).

409 Folk Music in Contemporary Culture. 3 cr. U/G. American Folk Music and its impact on contemporary culture.|Counts as repeat of Music 280/680 with the same topic. Prereq: jr st, Music 102(P); or cons instr.

410 Topics in World Music: (Subtitled). 3 cr. U/G. Topics vary. Covers the music of a single country, geographic region, or aspects of a particular topic in world music in depth.|May be retaken w/chg in topic to 6 cr max. Prereq: jr st & Music 310(P); or grad st or cons instr.

415 Choral Literature Survey. 2 cr. U. A historical overview of choral literature with emphasis on major composers and styles of each period. Repertoire studied is selected from the WSMA Contest list.|Prereq: jr st; Music 230(P) & cons instr.

420 Advanced Computing and Music. 3 cr. U/G. Advanced application of microcomputers in midi, digital synthesis, electronic orchestration, and varied media interfaces as applied to composition. Individual work in computer music lab|Prereq: jr st; music major; Music 220(P); previous experience in computers & music; or cons instr.


434 Piano Pedagogy III. 3 cr. U. In-depth training for pianists in piano pedagogy. Teaching the intermediate/late-intermediate and adult student in individual and group settings.|Prereq: Piano Pedagogy or Performance Major or cons instr.

435 Piano Pedagogy IV. 3 cr. U. In-depth training for pianists in piano pedagogy. Teaching the advancing piano student in individual lessons. Advanced technical and musical skills, technical studies and repertoire.|Prereq: Piano Pedagogy or Performance Major or cons instr.

446 Vocal Pedagogy. 2 cr. U/G. Techniques for training the singing voice derived from the study of vocal anatomy, various pedagogy texts, and the observation and teaching of voice lessons.|Prereq: jr st & cons instr.

447 String Pedagogy in the Studio. 2 cr. U/G. Topics include: technique (instrument hold, shifting, vibrato, spiccato, etc.), historical survey (tartini, baillot, auer, flesch, etc). Information delivery techniques, master teacher profile, recent trends.|Prereq: jr st; cons instr.

448 Piano Pedagogy. 2 cr. U. Techniques for training the elementary level piano student, derived from the study of methods and materials, discussion and guest lectures. Given alternate years.|Prereq: jr st or cons instr.

449 (effective 09/02/2015) Women in Music: (Subtitled). 3 cr. U/G. Women's roles in musical life; their contributions as performers and composers to various musical styles and repertoires; comparison of their activities with those of men. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.|May be
449 Women in Music: (Subtitled). 3 cr. U/G. Women's roles in musical life; their contributions as performers and composers to various musical styles and repertoires; comparison of their activities with those of men. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered. May be repeated with change of topic to max of 6 cr. Prereq: jr st; cons instr.


452 Collegium Musicum. 1-2 cr. U/G. Vocal and instrumental groups devoted to the study and performance of music from twelfth through the eighteenth century. Music majors enroll for 1 cr per sem; others for 1 or 2 cr. Prereq: jr st; cons instr.

454 Contemporary Music Ensemble. 1 cr. U. Study of various forms in contemporary music, with an emphasis on indeterminacy and improvisation. Works composed in the course are performed on a concert during the semester. Prereq: cons instr.

457 Opera Theatre. 0-3 cr. U/G. A concentrated study of the literature and techniques for the musical stage. May be retaken to max of 4 sem. Students not needing cr should enroll for 0 cr; those needing 1-3 cr should enroll for a specific number of cr. Students who enroll for 0 cr will be assessed a fee for 1 credit. Prereq: cons instr & major teacher.

458 Opera Apprenticeship. 0-3 cr. U/G. A specialized course reflecting an apprenticeship program with an approved off-campus, professional opera company. May be retaken to max of 4 sem. Students needing 0 cr should enroll for Music 458-Z; those needing 1-3 cr should enroll for Music 458-C and specify number of cr. Students who enroll for 0 cr will be assessed fee for 1 cr. Prereq: jr st; audition; & vocal performance major.

478 Finger-Style Guitar: History and Performance. 3 cr. U. Through multi-media lecture/presentations and hands-on instruction, this class will familiarize students with the history and performance of finger-style guitar. Counts as repeat of Music 280 with same topic. Prereq: cons instr, Music major.

489 Workshop: (Subtitled). 1-4 cr. U/G. Specific topic announced in the Schedule of Classes. Prereq: jr st; additional prereq announced each offering.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Studio and special studies designed to provide relevant course work for a study abroad program in music. May be retaken with change in topic to max of 12 cr. Prereq: jr st; cons instr & acceptance for Study Abroad Prog.

509 Certificate Program in Rock and Roll Studies Capstone. 3 cr. U. Individual rock and roll studies projects facilitated by critiques and work sessions. Prereq: min 12 cr of core and elective curriculum of Rock and Roll Studies curriculum, or cons instr.


559 The Wind Band: Its History and Literature. 3 cr. U/G. Examination of origins and historical significance of the wind band, including a survey of its instrumentation and literature. Prereq: jr st; cons instr.
561 Advanced Chamber Music. 1-3 cr. U/G. Upper level undergraduate and graduate students to perform and study the chamber literature (duets, trios, quartets, etc). Open to performance majors. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken to max of 9 cr. Prereq: jr st; cons instr.

611 Music of the Medieval Era. 3 cr. U/G. A general or topical survey of medieval music, including the study of representative works, medieval theory and performance practices. Prereq: jr st; Music 211, 212, 307, & 4 sem Music theory.


620 Advanced Percussion Pedagogy. 1-2 cr. U/G. Techniques for developing and teaching mallet and stick control. Model lesson procedures; methods, music (solo and ensemble) and equipment selection. Prereq: jr st.

659 Junior Recital. 0 cr. U. Independent supervised preparation and performance on recital program as determined by performance instructor. Fee for 1 cr assessed. Prereq: jr st; cons instr.

660 Senior Recital: (Subtitled). 0-2 cr. U. Independent supervised preparation and performance in recital to fulfill degree requirements. Students in the multiple woodwinds performance major may fulfill the requirement for two senior recitals (1 cr for primary instrument and 2 cr for secondary instrument) by enrolling in two sections of Music 660 during the same sem. Students not needing cr should enroll for 0 cr; those needing 1-2 cr should enroll for a specific number of cr. Students who enroll for 0 cr will be assessed fee for 1 cr.

680 Special Studies in Music: (Subtitled). 1-3 cr. U/G. Specific topic will be announced in Schedule of Classes when offered. May be retaken with change of topic to max of 9 cr. Prereq: jr st or cons instr.

691 Senior Thesis. 2 cr. U/G. Prereq: sr st. Not available for grad cr at this time.

692 Senior Thesis II. 2 cr. U/G. Prereq: sr st. Not available for grad cr at this time.

693 Apprenticeship: 1-4 cr. U/G. Open to select advanced students who will work as paraprofessionals under the guidance of a program designed jointly by the student, the music department curriculum committee, and a professional mentor approved by the curriculum committee. Prereq: jr st; cons curric comm.

699 Advanced Independent Work (Undergraduate). 1-3 cr. U. Enroll for a specific number of credits. May be retaken for cr. Prereq: cons dept chair.

This course information produced at 01:00 on 07/30/2015.
MUSPERF Music Performance

Performance (MusPerf) refers to courses of individual, group, intermediate or advanced instruction on a musical instrument, voice or in composition. Courses are available to students only after passing a successful performance audition and are placed at an appropriate level. All courses in performance curricular studies are taken for credit to satisfy individual area requirements. Non-Music majors must check with their schools or colleges regarding credit applicability and limits. All students taking individual performance lessons must also concurrently enroll in an approved Music Ensemble as published in the Performance Organization list.

All MusPerf performance courses are offered at progressive levels. A student will be advised to register at a specific level after completing an audition, and may advance to the next higher level upon successful completion of each lower level.

Performance (MusPerf) further distinguishes between courses that are specific to principal and non-principal performance lessons. A principal performance lesson refers to a student's primary instrument or area of concentration. A non-principal performance lesson refers to a student's secondary instrument or area of concentration as required by individual music area curricula.

The Catalog (or Course) number designates between fundamental, principal or non-principal instruction, given the chosen curriculum. The first digit reflects a specific curricular area.

1. 0XX for music majors only: applies to lessons at a fundamental level on an instrument, in voice or composition. 2. 1XX for music or non-music majors: applies to non-principal lessons on an instrument or voice. 2XX for music majors only: applies to principal lessons on an instrument or in voice as a secondary concentration. 6XX for music majors only: applies to non-principal performance lessons for the graduate student. 3. 3XX, 4XX for music majors only: applies to principal lessons, on an instrument, in voice or composition. 7XX for music majors only: applies to principal performance lessons for the graduate student.

The second and third digits of the Catalog number define the specific instrument to be studied.

The section number indicates the specific performance level of lessons to be taken. Section numbers are listed in the published timetable.

For example: A student auditions, wishing to pursue a music degree as a performer, majoring in trumpet. When accepted the student would take performance lessons on trumpet as the principal instrument and primary area of concentration. This student may additionally be required to take performance lessons in piano as defined by his or her music curriculum. These lessons would be considered a secondary area of concentration, and piano as the non-principal instrument.
After successfully completing an audition, the performance major would begin lessons on his or her principal instrument and enter at the 3XX:001 Level I, followed by 002 Level II, 003 Level III and 004 Level IV (freshman and sophomore years) for four semesters and next advance to 4XX:001 Level I, followed by 002 Level II, 003 Level III and 004 Level IV (junior and senior years) for their four remaining semesters. Each level may only be taken once. A second enrollment in a level may occur only after prior consent of instructor and will be considered a repeat for the purposes of a change of grade.

Numerical designation of course: "0" indicates small-group instruction in fundamentals for a given area to fulfill degree requirements in music education, literature, theory, and composition. All courses have one level with a max of 1 cr except for piano fundamentals, which may have up to two levels. Each level may only be taken once. A second enrollment at any level may occur only after prior consent of instructor and will be considered a repeat for the purposes of a change of grade. Courses are all 1 cr. Prereq: music major only; audition principal instrument; successful completion of Level(s); or cons instr. See area requirements for specific course recommendation towards the degree.

"1" indicates individual instruction on non-principal instrument to fulfill degree requirements in music education, literature, theory, and composition. Various curricula require up to eight progressive Levels; retakeable with change of topic (level) to a max of 8 cr. Concurrent registration in an approved performance organization is required for music and non-music majors. A second enrollment in a level only by prior cons instr.

"2" indicates individual instruction on principal instrument to fulfill degree requirements in music education, literature, theory, and composition. Various curricula require up to eight progressive levels; retakeable with change of topic (level) to a max of 8 cr. Concurrent registration in an approved performance organization is required. A second enrollment in a level only by prior cons instr. Courses are all 1 cr. Prereq: music major; audition principal instrument; successful completion of each lower level; or cons instr.

"3" indicates individual instruction in principal instrument for performance majors only. Course has four progressive levels; retakeable with change of topic (level) to a max of 8 cr. Concurrent registration in an approved performance organization is required. A second enrollment in a level only by prior cons instr. Courses are all 2 cr except composition, which is 1 cr; retakeable with change of topic to a max of 4 cr. Prereq: music performance major; audition principal instrument; successful completion of each lower level; or cons instr.

"4" indicates advanced individual instruction in principal instrument for performance majors only. Course has four progressive levels; retakeable with change of topic (level) to a max of 8 cr. Concurrent registration in an approved performance organization is required. A second enrollment in a level only by prior cons instr. Courses are all 2 cr except composition, which is 1 cr; retakeable with change of topic to a max of 4 cr. Prereq: music performance major; audition principal instrument; successful completion of each lower level; or cons instr.

"5" indicates specialized master class for principal instrument performance studies at G/UG level. Course is retakeable to a max of 8 cr. Courses are all 1 cr and are taken upon the recommendation of instructor. Prereq: music major; audition principal instrument; successful completion of each lower level; or cons instr.

"6" indicates non-principal performance lessons for the graduate student in their non-major area. Courses are all 1 cr.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits</th>
<th>Unknown Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Fundamentals of Piano: (Subtitled)</td>
<td>1 cr. U.</td>
<td>Small group instruction in piano fundamentals. Course has two progressive levels.</td>
<td>May be retaken with topic change to max of 2 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>2 Fundamentals of Organ</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of organ.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>3 Fundamentals of Harpsichord</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of harpsichord.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>11 Fundamentals of Voice</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of voice.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>21 Fundamentals of Flute</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of flute.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>22 Fundamentals of Oboe and Bassoon (effective 09/02/2015)</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of oboe and bassoon.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>22 Fundamentals of Oboe</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of oboe.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>23 Fundamentals of Clarinet</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of clarinet.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>24 Fundamentals of Saxophone</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of saxophone.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>25 Fundamentals of Bassoon</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of bassoon.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>31 Fundamentals of French Horn</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of french horn.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>32 Fundamentals of Trumpet or Cornet</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of trumpet or cornet.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>33 Fundamentals of Trombone</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of trombone.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>34 Fundamentals of Baritone</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of baritone.</td>
<td>Course has one level with max of 1 cr.</td>
<td>Repeat of level only by prior cons instr.</td>
</tr>
<tr>
<td>35 Fundamentals of Tuba</td>
<td>1 cr. U.</td>
<td>Small group instruction in fundamentals of tuba.</td>
<td>Course has one level with max of</td>
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</tr>
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</table>
1 cr. | Repeat of level only by prior cons instr. Prereq: music major; audition principal instrument; or cons instr.

41 Fundamentals of Violin. 1 cr. U. Small group instruction in fundamentals of violin. Course has one level with max of 1 cr. | Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

42 Fundamentals of Viola. 1 cr. U. Small group instruction in fundamentals of viola. Course has one level with max of 1 cr. | Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

43 Fundamentals of Cello. 1 cr. U. Small group instruction in fundamentals of cello. Course has one level with max of 1 cr. | Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

44 Fundamentals of Double Bass. 1 cr. U. Small group instruction in fundamentals of double bass. Course has one level with max of 1 cr. | Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

45 Fundamentals of Harp. 1 cr. U. Small group instruction in fundamentals of harp. Course has one level with max of 1 cr. | Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

51 Fundamentals of Percussion. 1 cr. U. Small group instruction in fundamentals of percussion. Course has one level with max of 1 cr. | Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

61 Fundamentals of Composition. 1 cr. U. Small group instruction in fundamentals of composition. Course has one level with max of 1 cr. | Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; or cons instr.

101 Lessons in Piano: (Subtitled). 1 cr. U. Private lessons in piano. Course has eight progressive performance levels. | May be retaken with topic change to 3 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

102 Lessons in Organ: (Subtitled). 1 cr. U. Private lessons in organ. Course has eight progressive performance levels. | May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

103 Lessons in Harpsichord: (Subtitled). 1 cr. U. Private lessons in harpsichord. Course has eight progressive performance levels. | May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

111 Lessons in Voice: (Subtitled). 1 cr. U. Private lessons in voice. Course has four progressive performance levels. | May be retaken with topic change to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

121 Lessons in Flute: (Subtitled). 1 cr. U. Private lessons in flute. Course has eight progressive performance levels. | May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

122 Lessons in Oboe: (Subtitled). 1 cr. U. Private lessons in oboe. Course has eight progressive performance levels. | May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each
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<tr>
<th>Course Code</th>
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<th>Description</th>
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<tr>
<td>123</td>
<td>Lessons in Clarinet: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in clarinet. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>124</td>
<td>Lessons in Saxophone: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in saxophone. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>125</td>
<td>Lessons in Bassoon: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in bassoon. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>131</td>
<td>Lessons in French Horn: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in french horn. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>132</td>
<td>Lessons in Trumpet or Cornet: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in trumpet or cornet. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>133</td>
<td>Lessons in Trombone: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in trombone. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>134</td>
<td>Lessons in Baritone: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in baritone. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>135</td>
<td>Lessons in Tuba: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in tuba. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>141</td>
<td>Lessons in Violin: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in violin. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>142</td>
<td>Lessons in Viola: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in viola. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
</tr>
<tr>
<td>143</td>
<td>Lessons in Cello: (Subtitled)</td>
<td>1 cr.</td>
<td>Private lessons in cello. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level</td>
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only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

144 Lessons in Double Bass: (Subtitled). 1 cr. U. Private lessons in double bass. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

145 Lessons in Harp: (Subtitled). 1 cr. U. Private lessons in harp. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

146 Lessons in Guitar—Classical: (Subtitled). 1 cr. U. Private lessons in a non-principal guitar style. Course has eight progressive performance levels. May be retaken with topic change to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music majors only; audition principal instrument; successful completion of each lower level; or cons instr.

147 Lessons in Guitar—Finger-Style: (Subtitled). 1 cr. U. Private lessons in a non-principal guitar style. Course has eight progressive performance levels. May be retaken with topic change to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music majors only; audition principal instrument; successful completion of each lower level; or cons instr.

148 Lessons in Guitar—Jazz: (Subtitled). 1 cr. U. Private lessons in a non-principal style. Course has eight progressive performance levels. May be retaken with topic change to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music majors only; audition principal instrument; successful completion of each lower level; or cons instr.

149 Lessons in Guitar—Flamenco: (Subtitled). 1 cr. U. Private lessons in a non-principal style. Course has eight progressive performance levels. May be retaken with topic change to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music majors only; audition principal instrument; successful completion of each lower level; or cons instr.

151 Lessons in Percussion: (Subtitled). 1 cr. U. Private lessons in percussion. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

201 Lessons in Piano: (Subtitled). 1 cr. U. Private lessons in piano. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

202 Lessons in Organ: (Subtitled). 1 cr. U. Private lessons in organ. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

203 Lessons in Harpsichord: (Subtitled). 1 cr. U. Private lessons in harpsichord. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

211 Lessons in Voice: (Subtitled). 1 cr. U. Private lessons in voice. Course has eight progressive performance
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>221</td>
<td>Lessons in Flute: (Subtitled)</td>
<td>1 cr.</td>
<td>U.</td>
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<tr>
<td></td>
<td>Private lessons in flute. Course has eight progressive performance levels.</td>
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<td></td>
<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<tr>
<td>222</td>
<td>Lessons in Oboe: (Subtitled)</td>
<td>1 cr.</td>
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<tr>
<td></td>
<td>Private lessons in oboe. Course has eight progressive performance levels.</td>
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<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<tr>
<td>223</td>
<td>Lessons in Clarinet: (Subtitled)</td>
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<td>Private lessons in clarinet. Course has eight progressive performance levels.</td>
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<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<tr>
<td>224</td>
<td>Lessons in Saxophone: (Subtitled)</td>
<td>1 cr.</td>
<td>U.</td>
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<tr>
<td></td>
<td>Private lessons in saxophone. Course has eight progressive performance levels.</td>
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<td></td>
<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<tbody>
<tr>
<td>225</td>
<td>Lessons in Bassoon: (Subtitled)</td>
<td>1 cr.</td>
<td>U.</td>
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<td></td>
<td>Private lessons in bassoon. Course has eight progressive performance levels.</td>
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<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<tbody>
<tr>
<td>231</td>
<td>Lessons in French Horn: (Subtitled)</td>
<td>1 cr.</td>
<td>U.</td>
</tr>
<tr>
<td></td>
<td>Private lessons in french horn. Course has eight progressive performance levels.</td>
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<tr>
<td></td>
<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<tbody>
<tr>
<td>232</td>
<td>Lessons in Trumpet or Cornet: (Subtitled)</td>
<td>1 cr.</td>
<td>U.</td>
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<tr>
<td></td>
<td>Private lessons in trumpet/cornet. Course has eight progressive performance levels.</td>
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<td></td>
<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<tbody>
<tr>
<td>233</td>
<td>Lessons in Trombone: (Subtitled)</td>
<td>1 cr.</td>
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<tr>
<td></td>
<td>Private lessons in trombone. Course has eight progressive performance levels.</td>
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<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<tbody>
<tr>
<td>234</td>
<td>Lessons in Baritone: (Subtitled)</td>
<td>1 cr.</td>
<td>U.</td>
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<tr>
<td></td>
<td>Private lessons in baritone. Course has eight progressive performance levels.</td>
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<tr>
<td></td>
<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<tr>
<td>235</td>
<td>Lessons in Tuba: (Subtitled)</td>
<td>1 cr.</td>
<td>U.</td>
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<tr>
<td></td>
<td>Private lessons in tuba. Course has eight progressive performance levels.</td>
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<td></td>
<td>May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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</table>
241 Lessons in Violin: (Subtitled). 1 cr. U. Private lessons in violin. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

242 Lessons in Viola: (Subtitled). 1 cr. U. Private lessons in viola. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

243 Lessons in Cello: (Subtitled). 1 cr. U. Private lessons in cello. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

244 Lessons in Double Bass: (Subtitled). 1 cr. U. Private lessons in double bass. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

245 Lessons in Harp: (Subtitled). 1 cr. U. Private lessons in harp. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

246 Lessons in Guitar—Classical: (Subtitled). 1 cr. U. Private lessons in a guitar style. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

247 Lessons in Guitar—Finger-Style: (Subtitled). 1 cr. U. Private lessons in a guitar style. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

248 Lessons in Guitar—Jazz: (Subtitled). 1 cr. U. Private lessons in a guitar style. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

249 Lessons in Guitar—Flamenco: (Subtitled). 1 cr. U. Private lessons in guitar. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

251 Lessons in Percussion: (Subtitled). 1 cr. U. Private lessons in percussion. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

261 Lessons in Composition: (Subtitled). 1 cr. U. Private lessons in composition. Course has eight progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.
301 Lessons in Piano: (Subtitled). 2 cr. U. Private lessons in piano. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

302 Lessons in Organ: (Subtitled). 2 cr. U. Private lessons in organ. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

304 Lessons in Collaborative Piano-Vocal: (Subtitled). 2 cr. U. Private lessons in Collaborative Piano-Vocal. Course has four progressive performance levels. May be retaken with change in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

306 Jazz Piano: (Subtitled). 2 cr. U. Lessons in Jazz Piano. Course has two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

311 Lessons in Voice: (Subtitled). 2 cr. U. Private lessons in voice. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

321 Lessons in Flute: (Subtitled). 2 cr. U. Private lessons in flute. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

322 Lessons in Oboe: (Subtitled). 2 cr. U. Private lessons in oboe. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

323 Lessons in Clarinet: (Subtitled). 2 cr. U. Private lessons in clarinet. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

324 Lessons in Saxophone: (Subtitled). 2 cr. U. Private lessons in saxophone. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

325 Lessons in Bassoon: (Subtitled). 2 cr. U. Private lessons in bassoon. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

328 Jazz Saxophone: (Subtitled). 2 cr. U. Lessons in Jazz Saxophone. Course has two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.
331 Lessons in French Horn: (Subtitled). 2 cr. U. Private lessons in french horn. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

332 Lessons in Trumpet or Cornet: (Subtitled). 2 cr. U. Private lessons in trumpet or cornet. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

333 Lessons in Trombone: (Subtitled). 2 cr. U. Private lessons in trombone. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

334 Lessons in Baritone: (Subtitled). 2 cr. U. Private lessons in baritone. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

335 Lessons in Tuba: (Subtitled). 2 cr. U. Private lessons in tuba. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

341 Lessons in Violin: (Subtitled). 2 cr. U. Private lessons in violin. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

342 Lessons in Viola: (Subtitled). 2 cr. U. Private lessons in viola. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

343 Lessons in Cello: (Subtitled). 2 cr. U. Private lessons in cello. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

344 Lessons in Double Bass: (Subtitled). 2 cr. U. Private lessons in double bass. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

345 Lessons in Harp: (Subtitled). 2 cr. U. Private lessons in harp. Course has four progressive performance levels.
May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

### 346 Lessons in Guitar--Classical: (Subtitled). 2 cr. U.
Private lessons in a principal guitar style. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

### 347 Lessons in Guitar--Finger-Style: (Subtitled). 2 cr. U.
Private lessons in a principal guitar style. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

### 348 Lessons in Guitar--Jazz: (Subtitled). 2 cr. U.
Private lessons in a principal guitar style. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

### 349 Lessons in Guitar--Flamenco: (Subtitled). 2 cr. U.
Private lessons in a principal guitar style. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

### 351 Lessons in Percussion: (Subtitled). 2 cr. U.
Private lessons in percussion. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

### 352 Jazz Drum Set: (Subtitled). 2 cr. U.
Lessons in Jazz Drum Set. Course has two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

### 353 Jazz String Bass: (Subtitled). 2 cr. U.
Lessons in Jazz String Bass. Course has two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

### 361 Lessons in Composition: (Subtitled). 1 cr. U.
Private lessons in composition. Course has four progressive performance levels. Level I will be presented as a group lesson. May be retaken with topic change to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major; audition principal instrument; successful completion of each lower level; or cons instr.

### 401 Lessons in Piano: (Subtitled). 2 cr. U.
Private lessons in piano. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

### 402 Lessons in Organ: (Subtitled). 2 cr. U.
Private lessons in organ. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

### 404 Lessons in Collaborative Piano-Vocal. (Subtitled). 2 cr. U.
Private lessons in Collaborative Piano-Vocal. Course has four progressive performance levels. May be retaken with change in topic to 8 cr max. Conc reg in approved...
performance organization. Repeat of level only by prior cons instr. Prereq: Music Performance major; audition principal instrument; successful completion of each lower level; or cons instr.

406 Jazz Piano: (Subtitled). 2 cr. U. Lessons in Jazz Piano. Two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusPerf 306(P).

411 Lessons in Voice: (Subtitled). 2 cr. U. Private lessons in voice. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

421 Lessons in Flute: (Subtitled). 2 cr. U. Private lessons in flute. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

422 Lessons in Oboe: (Subtitled). 2 cr. U. Private lessons in oboe. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

423 Lessons in Clarinet: (Subtitled). 2 cr. U. Private lessons in clarinet. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

424 Lessons in Saxophone: (Subtitled). 2 cr. U. Private lessons in saxophone. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

425 Lessons in Bassoon: (Subtitled). 2 cr. U. Private lessons in bassoon. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

428 Jazz Saxophone: (Subtitled). 2 cr. U. Lessons in Jazz Saxophone. Two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusicPerf 328(P).

431 Lessons in French Horn: (Subtitled). 2 cr. U. Private lessons in french horn. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

432 Lessons in Trumpet-Cornet: (Subtitled). 2 cr. U. Private lessons in trumpet-cornet. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

433 Lessons in Trombone: (Subtitled). 2 cr. U. Private lessons in trombone. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
434 Lessons in Baritone: (Subtitled). 2 cr. U. Private lessons in baritone. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

435 Lessons in Tuba: (Subtitled). 2 cr. U. Private lessons in tuba. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

436 Jazz Trumpet: (Subtitled). 2 cr. U. Lessons in Jazz Trumpet. Two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusPerf 336(P).

437 Jazz Trombone: (Subtitled). 2 cr. U. Lessons in Jazz Trombone. Two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusPerf 337(P).

441 Lessons in Violin: (Subtitled). 2 cr. U. Private lessons in violin. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

442 Lessons in Viola: (Subtitled). 2 cr. U. Private lessons in viola. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

443 Lessons in Cello: (Subtitled). 2 cr. U. Private lessons in cello. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

444 Lessons in Double Bass: (Subtitled). 2 cr. U. Private lessons in double bass. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

445 Lessons in Harp: (Subtitled). 2 cr. U. Private lessons in harp. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.

446 Lessons in Guitar--Classical: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.

447 Lessons in Guitar--Finger-Style: (Subtitled). 2 cr. U. Private lessons in a principal guitar style. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Course Description</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>448 Lessons in Guitar—Jazz: (Subtitled)</td>
<td>2 cr. U.  Private lessons in a principal guitar style. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<td>449 Lessons in Guitar—Flamenco: (Subtitled)</td>
<td>2 cr. U.  Private lessons in a principal guitar style. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<td>451 Lessons in Percussion: (Subtitled)</td>
<td>2 cr. U.  Private lessons in percussion. Course has four progressive performance levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: jr st; Performance Major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<td>452 Jazz Drum Set: (Subtitled)</td>
<td>2 cr. U.  Lessons in Jazz Drum Set. Two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusPerf 352(P).</td>
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<td>453 Jazz String Bass: (Subtitled)</td>
<td>2 cr. U.  Lessons in Jazz String Bass. Two progressive levels. May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: MusPerf 353(P).</td>
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<td>461 Lessons in Composition: (Subtitled)</td>
<td>2 cr. U.  Private lesson in composition. Course has four progressive levels. May be retaken with topic change to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr. Prereq: Music major or non-major; audition principal instrument; successful completion of each lower level; or cons instr.</td>
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<td>501 Master Class in Keyboard Instruments, Piano</td>
<td>1 cr. U/G.</td>
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<td>May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st &amp; cons instr.</td>
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<tr>
<td>502 Master Class in Keyboard Instruments, Organ</td>
<td>1 cr. U/G.</td>
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<td>May be repeated to max of 6 cr. Open to music majors only. Prereq: jr st &amp; cons instr.</td>
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<tr>
<td>511 Master Class in Voice</td>
<td>1 cr. U/G.</td>
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<td>May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st &amp; cons instr.</td>
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<td>521 Master Class in Woodwind Instruments, Flute</td>
<td>1 cr. U/G.</td>
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<td>May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st &amp; cons instr.</td>
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<td>522 Master Class in Woodwind Instruments, Oboe</td>
<td>1 cr. U/G.</td>
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<td>May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st &amp; cons instr.</td>
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<td>523 Master Class in Woodwind Instruments, Clarinet</td>
<td>1 cr. U/G.</td>
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<td>May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st &amp; cons instr.</td>
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<td>524 Master Class in Woodwind Instruments, Saxophone</td>
<td>1 cr. U/G.</td>
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<td>May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st &amp; cons instr.</td>
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<td>525 Master Class in Woodwind Instruments, Bassoon</td>
<td>1 cr. U/G.</td>
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<td>May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st &amp; cons instr.</td>
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<tr>
<td>531 Master Class in Brass Instruments, French Horn</td>
<td>1 cr. U/G.</td>
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<td>May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st &amp; cons instr.</td>
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</table>
532 Master Class in Brass Instruments, Trumpet-Cornet. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

533 Master Class in Brass Instruments, Trombone. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

534 Master Class in Brass Instruments, Baritone. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

535 Master Class in Brass Instruments, Tuba. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

541 Master Class in String Instruments, Violin. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

542 Master Class in String Instruments, Viola. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

543 Master Class in String Instruments, Violoncello. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

544 Master Class in String Instruments, Bass Viol. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

545 Master Class in String Instruments, Harp. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr. Not available for grad cr.

546 Master Class in Guitar. 1 cr. U/G. Master Class in Guitar supplements the student's private lesson by providing an opportunity for students to perform and critique repertoire and discuss related topics. Counts as repeat of Music 280 with topics 'Master Class - Jazz,' '- Fingerstyle,' and '- Classical.' May be retaken to max of 6 cr. Open to Music majors only. Prereq: jr st, cons instr.

551 Master Class in Percussion. 1 cr. U/G. | May be repeated to max of 6 cr. Open to Music majors only. Prereq: jr st & cons instr.

This course information produced at 01:00 on 07/30/2015.
MUS ED Music Education


260 Making Music Connections with Children. 3 cr. U. Experiencing music through interactive participation by singing, listening, moving, creating, and playing classroom instruments. Collaboratively teach multiethnic music for children in class.|Prereq: Admis to School of Educ.

331 Keyboard Skills for Music Educators I. 1 cr. U. Functional use of the keyboard for accompanying, sight reading and improvising|Prereq: none.

332 Keyboard Skills for Music Educators II. 1 cr. U. Functional use of the keyboard for accompanying and reading open score.|Prereq: Mus Ed 331(P) or cons instr.

350 Introduction to Teaching Music. 1 cr. U. Exploration of the profession of music teaching including observation in area music programs.|Prereq: Music Major; Music 124(P); & 128(P).

351 Music Instrument Lab. 2 cr. U. Practical experience with folk and recreational-instruments, e.g., autoharp, dulcimer, guitar. Methods and materials for use with children and adults.|Prereq: Music Major; admis to teacher cert prog; or cons instr.


450 Field Experience in Music Education. 1 cr. U. Experience working with diverse student populations in cooperating schools to address issues of urban teaching.|Prereq: Music Major; admis to teacher cert prog.

451 Teaching Instrumental Music: Elementary and Middle Levels. 2 cr. U. Group ensemble pedagogical techniques in elementary and middle schools; survey of band and orchestra literature; marching and jazz techniques; organization and administration of instrumental music.|Prereq: Music Major; admis to teacher cert prog.

452 String Pedagogy. 1 cr. U. Survey of string pedagogy, methods, and materials.|Prereq: Music Major; admis to teacher cert prog; 1 sem of stringed instrument; or cons instr.
455 Positive Approaches: Music Education Classroom Management. 1 cr. U. Stimulate thinking as evidenced by verbalizations demonstrating ability to logically analyze and criticize behavior. [Prereq: admis to teacher cert. prog.]

458 Musicals and Choirs for Young Voices. 2 cr. U. Explore musical literature and techniques for choirs in the elementary grades. Design your own musical and assess the educational value of published materials. [Prereq: Music Major; admis to teacher cert prog; or cons instr.]

460 Teaching Elementary General Music. 3 cr. U. Methods, materials, and observation of teaching general music in grades pre K-5. [Prereq: Music Major; admis to teacher cert prog; or cons instr.]

461 Teaching Secondary General Music. 2 cr. U. Methods and materials for teaching classroom music; work with creating, performing, and listening techniques; model course designs; related arts-humanities format; and appropriate resources. Sixth grade through adult. [Prereq: Music Major; admis to teacher cert prog; or cons instr.]

462 Teaching Secondary Choral Music. 2 cr. U. Methods and techniques for teaching choral music; work with organization choral program, auditioning, choosing music, program planning; rehearsal techniques, public relations, and setting up a choral library. Sixth grade through adult. [Prereq: Music Major; admis to teacher cert prog; or cons instr.]

463 Teaching Instrumental Music: Secondary. 2 cr. U. Group ensemble pedagogical techniques in secondary schools; survey of band and orchestra literature; marching and jazz techniques; organization and administration of the instrumental music program. [Prereq: Music Major; admis to teacher cert prog; or cons instr.]

477 Student Teaching in Music - Elementary Level. 1-9 cr. U. Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty. [Prereq: Music Major; admis to teacher cert prog; and program approval.]

478 Student Teaching in Music - Secondary Level. 1-9 cr. U. Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty. [Prereq: Music Major; admis to teacher cert prog; and program approval.]

479 Seminar in Student Teaching. 1 cr. U. A seminar meeting to review teacher field observations, portfolio development, and preparation of resume and job application materials. [Prereq: Music Major; admis to teacher cert prog; and program approval.]

680 Special Studies in Music Education: (Subtitled). 1-3 cr. U/G. Current issues in music education techniques, pedagogy, and practice at all levels of music teaching. Variable Topics. [May be retaken with change in topic to 9 cr max. Prereq: admis to U/G MusEd prog or cons instr.]

This course information produced at 01:00 on 07/30/2015.
UWM Undergraduate Catalog 2014-2015

UWM Milton and Lillian Peck School of the Arts

MUSTHPY Music Therapy
101 Cultural Diversity in Health Care. 3 cr. U. Enables student to conceptualize cultural diversity as a basic component of American society with implications for sensitivity and respect in health promotion and human relations. | Prereq: none.

102 Perspectives on Health Care Systems. 2 cr. U. Provides students with an orientation to the complexity of health care, health care delivery systems, and the populations served. | Prereq: none.

103 Freshman Seminar in Professional Nursing. 1 cr. U. Designed to orient students to nursing through self-assessment, career exploration, problem solving, study skills, and goal setting. | Prereq: admis to Pre-Nursing prog.


172 Health and Health Care Practices. 2 cr. U. Focuses on health, health care practices, personnel, and services related to obtaining reliable information on health care needs and practices, and available community services. | Prereq: none.

190 Special Studies in Nursing. 1-5 cr. U. Independent study course. Students establish credits, objectives and learning experiences with approval of instructor. | Retakeable to max of 5 cr. | Prereq: cons instr.

203 Human Growth and Development Across the Life Span. 4 cr. U. Introduction to physical, cognitive, and psychosocial growth of human organism from conception through older adulthood with application to health care. | Prereq: Psych 101(P).

205 Clinical Pharmacology. 3 cr. U. The principles of pharmacology and administration; legislative controls; mechanisms of drug actions; contraindications; adverse and toxic effects and lifespan considerations. | Prereq: Nurs 320(C) or cons instr.

211 Health Assessment. 3 cr. U. Concepts and skills to comprehensively assess the health status of individuals. History taking, physical examination techniques, developmental, and other assessments. | Prereq: Admis to major or cons instr.

251 Genetics and Genomics in Healthcare. 2 cr. U. The relationship between the underlying science (genetics), the study of genomes (genomics) and the social, ethical and legal issues (genethics) in healthcare. | Prereq: none.
262 Exploring Human Sexuality. 3 cr. U. Historical and contemporary issues involving human sexuality as seen through the lenses of nursing, psychology, biology, and sociology. | Prereq: none.

290 Special Studies in Nursing. 1-5 cr. U. Independent study course. Students establish credits, objectives and learning experiences with approval of instructor. | Retakeable to max of 5 cr. Prereq: cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in especially prepared program course work. | May be retaken with change in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: 1-12 cr. U. Created expressly for offering in a specified enrollment period. Specific credits and additional prereqs, if any, will be specified in Schedule of Classes whenever course is offered. | Retakeable with change in topic. Prereq: none.

300 Introduction to Research Principles and Methods. 2 cr. U. Introduction to the significance, principles, purpose, and methods of the research process in order to create good consumers of research literature. | Prereq: none.


317 Health Assessment. 3 cr. U. Health assessment broadens the RN's knowledge base, increases assessment skills and advances the ability to recognize the wide range of normal versus abnormal health findings. | Counts as repeat of UWS Nsg 317. Prereq: admis to RN to BSN Flex Degree Option.


321 Concepts of Illness II. 3 cr. U. Mechanisms, manifestations, diagnosis and treatment of disease states for selected body systems. Continuation of Nurs 320. | Prereq: Nurs 320(P) or cons instr.


327 Nursing Science III: Health Concepts-Women & Children. 4 cr. U. Nursing science related to the acute, chronic, and health promotion care of women and children and their families in acute and community care settings. | Prereq: Nurs 211(P), 320(P), 321(C); 331(P)

328 Nursing Science IV: Concepts of Health Care of the Adult. 4 cr. U. Nursing science related to adults with acute and chronic health problems in both acute and community care settings. Individual and family responses. | Prereq: Nurs 321(C); 331(P).

331 Foundations of Clinical Practice I. 5 cr. U.Introductory course includes communication, philosophy, theory, and decision making content, and psychomotor skills to be used as a base for planning and providing nursing care. | Prereq: admis to Nurs major.

334 Foundations of Clinical Practice II. 3 cr. U. Refine clinical decision making skills within the nursing process, professional communication, and psychomotor skills necessary for helping clients needing nursing care. | Prereq: Nurs 205(C), 321(C); 331(P).

351 (effective 09/02/2015) Professional Role 1: Foundations of Professional Practice. 3 cr. U. Exploration of selected foundational concepts and principles essential to the professional nursing role. | Prereq: admis to nurs major.

353 (effective 09/02/2015) Clinical Practicum 1: Foundations. 3 cr. U. Clinical practicum which introduces the application of foundational knowledge, skills, and attitudes in the provision of nursing care. Prereq: admis to nurs major.


380 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in nursing and healthcare. Retakeable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

390 Special Studies in Nursing. 1-5 cr. U. Independent study course. Students establish credits, objectives and learning experiences with approval of instructor. Retakeable to max of 5 cr. Prereq: cons instr.

398 (effective 09/02/2015) Health Assessment and Promotion in Nursing Practice. 3 cr. U. Application of nursing concepts and skills to promote health and comprehensively assess the health status of individuals using a nursing framework. Prereq: admis to nurs major.


403 Practice, Research and Leadership Role Development. 3 cr. U. Explore and evaluate role of the professional nurse as practitioner, researcher, manager and leader. Prereq: Nurs 334(P), 442(C).

404 Transition into Professional Nursing Practice. 3 cr. U. Critical issues impacting the development of current and emerging professional roles. Prereq: Nurs 403(P), 415(P).

407 Foundations of Professional Nursing Practice. 3 cr. U. Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced. Writing emphasis course. Counts as repeat of UWS NSG 341 & 407. Prereq: admis to RN to BSN Flex Degree Option.

415 Nursing Science V: Concepts of Community Health Care of Aggregates. 3 cr. U. Nursing care of individuals, families and communities; aggregates and special populations in the community; roles of community health nurses. Prereq: Nurs 334(P).


420 (effective 01/25/2016) Professional Role 2: Provider of Care. 3 cr. U. Examination of selected concepts and
principles essential to the provision of patient care.|Prereq: Nurs 351(P).


422 (effective 01/25/2016) Clinical Practicum 2: Acute & Chronic Conditions. 3 cr. U. Clinical practicum focusing on providing nursing care for individuals and families with acute and chronic conditions.|Prereq: Nurs 353(P).

430 (effective 09/02/2016) Professional Role 3: Interprofessional Practice. 3 cr. U. Analysis of factors contributing to collaboration within and among teams.|Prereq: Nurs 420(P).

431 (effective 09/02/2016) Health and Illness Concepts 3: Lifespan. 3 cr. U. Integration of selected concepts in the care of individuals and families across the lifespan.|Prereq: Nurs 421(P).


434 (effective 09/02/2016) Nursing Informatics and Technology. 3 cr. U. Basic concepts of informatics are introduced with focus on application to clinical practice to improve safety and quality of care.|Prereq: Nurs 419(P).

440 Nursing Specialty: (Subtitled). 2 cr. U. Topics of current interest in nursing specialty areas.|Retakeable with change in topic to 8 cr. max with cons instr. Prereq: Nurs 442(P).

441 Chronic Care Management. 3 cr. U. Exploration of interaction of biological, psychological, social, and environmental factors important to understanding management of chronic conditions at the individual, family, community, and societal levels.|Counts as repeat of UWS Nsg 441. Prereq: admis to RN to BSN Flex Degree Option.

442 Nursing Practice I. 8 cr. U. Clinical practice course for providing nursing care for adults and children experiencing acute and/or chronic health problems.|Prereq: Nurs 334(P) & 403(C); or cons instr.

443 Nursing Practice II. 8 cr. U. Clinical practice course for providing nursing care to individuals, families, groups, and communities.|Prereq: Nurs 442(P) or cons instr.

445 Capstone Practicum for Registered Nurses. 3 cr. U. Synthesis of knowledge from current and past learning experiences and application of clinical decision making to provide comprehensive nursing care to individuals, families, groups, and communities.|Counts as repeat of Nurs 445X. Prereq: Prior to Fall, 2014: UWS Nsg 317(P), 341(P), 434(P), 437(P), & 444(P). Fall, 2014 and beyond: UWS Nsg/Nurs/Flex 407(P), 441(P), 446(P), 447(P), 453(P) & 454(P).

446 Research and Evidence-Based Practice. 3 cr. U. Introduces the importance of research to improve clinical practice, strategies to evaluate the quality of research and evidence, and increase integration of research into practice.|Counts as repeat of UWS Nsg 434 & 446. Prereq: admis to RN to BSN Flex Option.

447 Leadership and Management. 3 cr. U. Examines nursing leadership and management using relevant theories and concepts. Analyze decision-making in relation to communication, delegation, supervision and group process.|Counts as repeat of UWS Nsg 437 & 447. Prereq: admis to RN to BSN Flex Degree Option.
448 (effective 09/02/2015) Mental Health Across the Care Continuum. 3 cr. U. This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care.|Prereq: none.

453 Information Management and Healthcare Technology. 3 cr. U. Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing's role in healthcare technology.|Counts as repeat of UWS Nsg 453. Prereq: admis to RN to BSN Flex Degree Option.

454 Community Health Nursing. 3 cr. U. Nursing care of populations and communities to facilitate optimal health outcomes.|Counts as repeat of UWS Nsg 444 & 454. Prereq: admis to RN to BSN Flex Degree Option.

460 Legal Aspects of Nursing. 2 cr. U. Current legal aspects and issues in nursing, including courts, licensure problems, legal status of nursing and health personnel, contracts, torts, negligence, crimes, and wills.|Prereq: jr st or cons instr.

475 Global Health: Ethics and Human Rights. 3 cr. U/G. Ethics and human rights issues related to disparities in financial, educational, technological, environmental, and political resources available to support healthy populations across the globe.|Prereq: jr st; Nurs 110(P) or cons instr.


477 (effective 01/26/2017) Health and Illness Concepts 5: Complex. 3 cr. U. Application of selected concepts to individuals/families with complex health and illness needs.|Prereq: Nurs 432(P).

478 (effective 01/26/2017) Clinical Practicum 4: Clinical Intensive. 3 cr. U. Practicum focusing on nursing care to individuals, groups, and families experiencing complex health care problems and life events throughout the lifespan.|Prereq: Nurs 433(P).

479 (effective 01/26/2017) Clinical Practicum 5: Capstone. 3 cr. U. Capstone clinical practicum focusing on care delivery, care coordination, leadership, and transition to practice.|Prereq: Nurs 478(P).

480 (effective 01/26/2017) Transition to Professional Practice. 3 cr. U. Exploration of the new graduate professional role to enable a smooth transition to the first registered nurse position. Course is delivered in hybrid format.|Prereq: Nurs 478(P) & 433(P).

490 Special Studies in Nursing. 1-5 cr. U. Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.|Retakeable to max of 5 cr. Prereq: cons instr.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in especially prepared program course work.|May be retaken with change in topic; max of 9 cr for grad students. Prereq: acceptance for Study Abroad Prog.


653 Foundations in Pathophysiology for Nursing Practice. 4 cr. U/G. Mechanisms, manifestations, diagnosis and treatment of disease states for selected body systems as a foundation for nursing management of selected conditions.|Prereq: Admis to Master of Nursing program
**682 Professional Role in Health Care Systems II. 2 cr. U/G.** Exploration and analysis of organizational environments, communication, and quality initiatives within interdisciplinary health care systems.|Prereq: Nurs 681(P).

**685 Clinical Reasoning. 5 cr. U/G.** Development and refinement of, and practice with, the clinical reasoning skills required for professional nursing practice.|Prereq: Nurs 653(P), 680(P).

**687 Professional Nursing Practice Internship. 1 cr. U/G.** Intensive clinical practice experience in a selected area of nursing.|Prereq: Nurs 686
151 (effective 09/02/2015) Foundations of Scientific Inquiry for Occupational Studies. 3 cr. U. Foundation of basic inquiry skills needed to pursue a career in health sciences. Attention is paid to observation, collection, visualization and reporting skills. Counts as repeat of OccThpy 290 with same topic. Prereq: none.

201 Introduction to Occupational Therapy. 2 cr. U. Survey of the profession of occupational therapy. Prereq: none.

226 Occupational Therapy Media I. 1-4 cr. U. Clinical application of a variety of therapeutic media used as occupational therapy treatment modalities including: ceramics, woodworking, fibers, group art activities, relaxation, and movement. Lecture, discussion, lab. Prereq: OccThpy 201.

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity. BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TerRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.

260 Enhancing Health Through Activity, Occupation and Technology I. 3 cr. U. Introduction to the role of activities, occupations, and technology in the promotion of good health and as interventions for individuals, groups and communities. Prereq: none.

280 Applied Human Anatomy for Health Professionals. 3 cr. U. In-depth study of the human body with emphasis on applications pertinent to health professionals. Special course fee assessed for lab materials. Prereq: Bio Sci 203(P) or cons instr.

290 Topics in Occupational Therapy: (Subtitled). 1-3 cr. U. Topics of current interest in occupational therapy. See Schedule of Classes for course offerings. May be retaken with change in topic to max of 9 cr. Prereq: none. Additional prereqs will be listed in the semester Timetable as appropriate. May be retaken with change in topic to max of 9 cr. Prereq: none.

297 Study Abroad - Occupational Therapy: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: acceptance to Study Abroad Prog.
301 Applied Neuroscience for Health Professionals. 3 cr. U. A functional approach to the human nervous system and neuropathology. Orientation to evaluation and treatment for neurological disorders.|Prereq: admis to OccThpy prog; KIN(HMS) 325(P) or (C), or cons instr.

305 Applied Psychopathology. 3 cr. U. Survey of psychopathology, psychosocial rehabilitative treatment theory and practice used in mental health settings. Lec, Dis.|Prereq: Acceptance in OccThpy prog; or cons instr.

308 Musculoskeletal Pathology and Occupational Function. 2 cr. U. The origin, nature, and course of musculoskeletal disorders are described and analyzed within the context of occupational performance and occupational biomechanics.|Prereq: admis to OccThpy prog.

315 Group Process in Rehabilitation. 3 cr. U. Study of, and participation in, group process specific to rehabilitation programs. Experimental.|Prereq: jr st in OccThpy or TherRec, OccThpy 305(P) or TherRec 308(P), or cons instr.

321 Administration of Rehabilitation Programs. 3 cr. U. Study of the establishment and administration of rehabilitation programs. Lecture, Discussion.|Prereq: jr st in OccThpy prog & OccThpy 315(P) or cons instr.


323 Program Management in Rehabilitation. 2 cr. U. Study of the management of programs in rehabilitation.|Prereq: sr st in OccThpy prog or cons instr.


329 Occupational Therapy in Gerontology. 3 cr. U/G. In-depth study of occupational therapy principles and practice in working with the elderly in institutions and the community.|Prereq: jr st in OccThpy Prog.

330 Foundations of Professional Practice in Occupational Therapy. 1-3 cr. U. Foundation for successful professional practice in the field of occupational therapy. Students will apply knowledge of core professional documents, ethics and leadership. Specific cr announced in Schedule of Classes each time course is offered.|May not be retaken for cr. Prereq: jr st in Occthpy Prog.

331 Foundations of Professional Practice in Occupational Therapy II. 1-3 cr. U. Students will experience a variety of health and community care settings and integrate ot professional concepts (e.g. COTA-OTR partnerships, crisis intervention, and cultural diversity). Specific cr announced in Schedule of Classes each time course is offered.|May not be retaken for cr. Prereq: jr st in OccThpy prog; OccThpy 330(P).


341 Evidence for Practice II: Appraising Evidence. 3 cr. U. Critically examines current research evidence in occupational therapy. Emphasizes spectrum of quantitative and qualitative approaches.|Prereq: jr st in OccThpy prog; OccThpy 340(P).

350 Professional Development Seminar I. 1 cr. U. Integrate academic knowledge with observation skills; refine skills through client observation; complete facility tours and paired visits to OT-related sites.|Prereq: Acceptance in OccThpy prog; or cons instr.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>360</td>
<td>Enhancing Health Through Activity, Occupation and Technology II</td>
<td>3 cr.</td>
<td>Integrate understanding of relationship of occupation and health, occupation-based intervention and technology. Reflect on personal occupations and design interventions for individuals, groups, communities.</td>
</tr>
<tr>
<td>390</td>
<td>Professional Development Seminar II</td>
<td>1 cr.</td>
<td>Integrate OT academic knowledge with observation and intervention skills; refine skills through client interaction; complete 1st Level I fieldwork</td>
</tr>
<tr>
<td>401</td>
<td>Overview of Medical Conditions</td>
<td>3 cr.</td>
<td>Overview of common impairments and related diagnoses such as spinal cord injury, head injury, burns, cognitive disorders and psychiatric disorders with implications for OT practice.</td>
</tr>
<tr>
<td>405</td>
<td>Occupational Therapy in Physical Rehabilitation II</td>
<td>3 cr.</td>
<td>Neurodevelopmental evaluation and treatment procedures for persons with central nervous system damage. Lec, lab.</td>
</tr>
<tr>
<td>411</td>
<td>Occupational Therapy and Psychosocial Rehabilitation</td>
<td>3 cr.</td>
<td>Advanced clinical techniques in psychosocial occupational therapy emphasizing social skills training, life coping skills, OT evaluations and intervention planning in rehabilitation and community settings.</td>
</tr>
<tr>
<td>425</td>
<td>Occupational Therapy Senior Seminar</td>
<td>2 cr.</td>
<td>Summary and analysis of occupational therapy services primarily in physical dysfunction treatment situations. 4-week mini-course.</td>
</tr>
<tr>
<td>426</td>
<td>Occupational Therapy in Pediatrics II</td>
<td>3 cr.</td>
<td>Evaluation of occupational performance and treatment implementation for the birth to 21 y/o population with occupational dysfunction. Lec and lab.</td>
</tr>
<tr>
<td>427</td>
<td>Essentials of Splinting</td>
<td>3 cr.</td>
<td>Evaluation and splint fabrication of upper and lower extremity and trunk. Hands-on lab experience in splint design using various patterns, applications, and materials.</td>
</tr>
<tr>
<td>430</td>
<td>Foundations of Professional Practice in Occupational Therapy III</td>
<td>1-3 cr.</td>
<td>Fieldwork, lecture, discussions on professional topics; OT in health, education, and community settings. Specific cr announced in Schedule of Classes each time course is offered.</td>
</tr>
<tr>
<td>460</td>
<td>Professional Development Seminar III</td>
<td>1 cr.</td>
<td>Integrate OT academic knowledge with observation and interaction skills; develop clinical techniques and analyze and reflect on skills; complete 2nd Level I fieldwork</td>
</tr>
<tr>
<td>490</td>
<td>Professional Development Seminar IV</td>
<td>1 cr.</td>
<td>Integrate OT academic knowledge with interaction skills; develop clinical techniques and analyze/reflect on skills; work on preparation for Level II fieldwork.</td>
</tr>
<tr>
<td>497</td>
<td>Study Abroad - Occupational Therapy: (Subtitled)</td>
<td>1-12 cr.</td>
<td>Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: acceptance to Study Abroad Prog.</td>
</tr>
<tr>
<td>505</td>
<td>Occupational Therapy in Work Programs</td>
<td>3 cr.</td>
<td>Examines the role of OT in work-related settings. Prevention, assessment, and treatment of mental and physical disorders are discussed.</td>
</tr>
<tr>
<td>519</td>
<td>Therapeutic Communication</td>
<td>3 cr.</td>
<td>Development of therapeutic communication skills necessary for all occupational therapy practice settings.</td>
</tr>
</tbody>
</table>
540 Evidence for Practice I. 3 cr. U/G. Introduction to research methods and measurement in occupational therapy with a focus on the scientific process and evidence. Prereq: sr st or grad st in OT prog.

541 Evidence for Practice III: Creating Evidence. 3 cr. U/G. Seminar to study the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development. Prereq: sr st in OccThpy & OccThpy 341(P); or grad st in OccThpy; or cons instr.

542 Evidence for Practice II. 3 cr. U/G. Study of the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development. Prereq: sr st or grad st in OT; or cons instr.

540 Topics in Occupational Therapy: (Subtitled). 1-3 cr. U/G. Topics of current interest in O.T. see Schedule of Classes for course offerings. May be retaken with change in topic to max of 9 cr. Prereq: jr st in OccThpy prog or cons instr.

593 Introduction to Biomedical and Rehabilitation Instrumentation. 3 cr. U/G. Familiarizes students with medical instrumentation in post acute care settings. Basic electrical, electronic and mechanical terminologies. Prereq: jr st or cons instr.

595 Vision I: Introduction to Low Vision & Visual Impairment. 3 cr. U/G. Introduces student to visual impairment including blindness and 'low vision'. Structure and function of the visual system and most common types of pathology. Prereq: jr st or cons instr.

596 Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention. 3 cr. U/G. Functional implications of visual system pathology; focus on practical aspects of adapting to visual impairment, low vision evaluation and access to service/resources. Prereq: jr st or cons instr.

599 Independent Study. 1-3 cr. U. May be retaken for degree cr. Prereq: jr st in OccThpy Prog; writ cons instr.

610 Advances in Occupational Science. 3 cr. U/G. Explores origins and recent developments in occupational science. Examines the multidimensional nature of occupation; the dynamics of person, environment, occupation interaction; applications to practice. Prereq: sr st in Baccalaureate OccThpy prog or grad st.

620 Introduction to Assistive and Rehabilitation Technology. 3 cr. U/G. Principles of assistive and rehabilitation technology application and foundation skills for professionals working with people with disabilities to evaluate products and strategies for their use. Prereq: jr st; OccThpy 401(P) or cons instr.

625 Design and Disability. 3 cr. U/G. Universal design principles/theories related to creating access for individuals with disabilities. Enables professionals to evaluate and provide recommendations for product and environment universal design. Prereq: jr st or cons instr.

634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities. 3 cr. U/G. Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings. ExcEduc 634, Occthpy 634, & ComSDis 634 are jointly offered; they count as repeats of one another. Prereq: jr st.
201 Introduction to Conflict Resolution and Peace. 3 cr. U. Violent and peaceful strategies of conflict resolution; viability of various plans for permanent world peace.\(|\text{Counts as repeat of Psych 201. Prereq: none.}\)

219 Topics in Power and Conflict. 3 cr. U. Examination of topics concerned with power, conflict, and non-violent methods of conflict resolution.\(|\text{Prereq: none.}\)

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.\(|\text{Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.}\)

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.\(|\text{Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.}\)

489 Internship in Peace Studies, Upper Division. 1-6 cr. U. Application of advanced principles of social sciences in a business, organizational, educational, political, or other appropriate setting.\(|\text{One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in social sciences; 2.25 gpa; cons supervising faculty member.}\)

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.\(|\text{Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.}\)

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.\(|\text{Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.}\)

699 Advanced Independent Study. 1-6 cr. U. Advanced level independent work under the supervision of a peace studies faculty or academic staff member.\(|\text{Retakeable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.}\)
This course information produced at 01:00 on 07/30/2015.
101 Introduction to Philosophy: (Subtitled). 3 cr. U. Introduction to the philosophical thinking through examination of such topics as Plato's and Aristotle's contribution to Western civilization; free will and moral responsibility; God, morality, and knowledge. Not retakable for add'l cr; may be repeated for higher grade. Prereq: none.

111 Informal Logic - Critical Reasoning. 3 cr. U. This course teaches students to identify, analyze, and evaluate arguments to rationally defend and criticize viewpoints, and to apply reasoning skills in practice. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

204 Introduction to Asian Religions. 3 cr. U. Philosophy of Asian religions; emphasis on the Indian experience of Hinduism and Buddhism, and the Chinese experience of Buddhism, Confucianism, and Taoism. Prereq: none.

207 Religion and Science. 3 cr. U. The alleged conflict between science and religion: case histories, analysis of the issues, implications for the concepts of religious beliefs and scientific knowledge. Prereq: none.

211 Elementary Logic. 3 cr. U. Introduction to traditional and modern logic; the concepts of argument, validity; proof, fallacy, persuasion, and reasoning; the development of certain practical skills. Prereq: none.

212 Modern Deductive Logic. 3 cr. U. A second course in symbolic logic that develops the skills in symbolic translation and proof construction acquired in Philos 211, investigates more abstractly the properties of formal systems of proof. Prereq: grade C or better in Philos 211(P).

213 Introduction to the Philosophy of Science. 3 cr. U. Course for beginning students dealing with such problems as induction vs deduction; hypotheses and theories and their relation to observation; explanation and prediction. Prereq: none.

215 Belief, Knowledge, and Truth: An Introduction to the Theory of Knowledge. 3 cr. U. Grounds of rational belief
and knowledge and methods used for obtaining them, with particular emphasis on problems of evidence and truth. |Prereq: none.

<table>
<thead>
<tr>
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<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>217</td>
<td>Introduction to Metaphysics</td>
<td>3 cr.</td>
<td>U. Introduction to the major problems of metaphysics, such as the mind-body problem, the free will-determinism issue, and the nature of causality.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>232</td>
<td>Topics in Philosophy: (Subtitled)</td>
<td>3 cr.</td>
<td>U. A course for beginning students dealing with such philosophical problems as freedom of will, skepticism, or a historical figure or movement.</td>
<td>Retakable w/chg in topic to 6 cr max. Prereq: none.</td>
</tr>
<tr>
<td>235</td>
<td>Philosophical Aspects of Feminism</td>
<td>3 cr.</td>
<td>U. A course for beginning students dealing with selected philosophical issues underlying feminist ideas and problems.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>237</td>
<td>Technology, Values, and Society</td>
<td>3 cr.</td>
<td>U. Discussion of controversies over whether modern technology is a progressive or regressive force in human life; impact of technology on individual and institutional values.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>241</td>
<td>Introductory Ethics</td>
<td>3 cr.</td>
<td>U. Development of moral ideas. Criticism of ethical theories and of social institutions such as state, property, and family.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>242</td>
<td>Introduction to Social and Political Philosophy</td>
<td>3 cr.</td>
<td>U. Opposing philosophical views about man and his political and social life.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>243</td>
<td>Moral Problems: (Subtitled)</td>
<td>1 cr.</td>
<td>U. Intensive study of one moral issue of current relevance.</td>
<td>Retakable w/chg in topic to 6 cr max. Prereq: none.</td>
</tr>
<tr>
<td>244</td>
<td>Ethical Issues in Health Care: (Subtitled)</td>
<td>3 cr.</td>
<td>U. Study of ethical issues facing patients, providers, and public policy planners: e.g., ethical response to terminal illness, equity in health care delivery.</td>
<td>Retakable w/chg in topic to 6 cr max. Prereq: none.</td>
</tr>
<tr>
<td>245</td>
<td>Critical Thinking and the Law: (Subtitled)</td>
<td>3 cr.</td>
<td>U. Development of critical and analytical skills using legal reasoning as a model and law texts as sources.</td>
<td>Retakable w/chg in topic to 6 cr max. Prereq: none.</td>
</tr>
<tr>
<td>250</td>
<td>Philosophy of Religion</td>
<td>3 cr.</td>
<td>U. Concepts of God and concepts of faith; the traditional proofs, the problem of evil, the relevance of scripture; the roles of reason, commitment, religious experience.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>253</td>
<td>Philosophy of the Arts</td>
<td>3 cr.</td>
<td>U. The creation, appreciation, and criticism of works of art. Sources and use of standards.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>271</td>
<td>Philosophical Traditions: (Subtitled)</td>
<td>3 cr.</td>
<td>U. Survey of one significant philosophical tradition.</td>
<td>Retakable w/chg in topic to 6 cr max. Prereq: none.</td>
</tr>
<tr>
<td>272</td>
<td>Philosophical Classics: (Subtitled)</td>
<td>1 cr.</td>
<td>U. Intensive study of one short work of special importance in the philosophic literature.</td>
<td>Retakable w/chg in topic to 6 cr max. Prereq: none.</td>
</tr>
<tr>
<td>289</td>
<td>Internship in Philosophy, Lower Division</td>
<td>1-6 cr.</td>
<td>U. Application of basic principles of philosophy in a business, organizational, educational, political, or other appropriate setting.</td>
<td>One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in philos; 2.25 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>297</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined, and/or in specially prepared program course work.</td>
<td>Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.</td>
</tr>
<tr>
<td>299</td>
<td>Ad Hoc: (Subtitled)</td>
<td>1-6 cr.</td>
<td>U. Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval.</td>
<td>In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Level</td>
<td>Prerequisites</td>
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</tr>
<tr>
<td>303</td>
<td>Theory of Knowledge</td>
<td>3</td>
<td>U/G</td>
<td>jr st; Philos 101(P), 201(P), or 215(P)</td>
</tr>
<tr>
<td>317</td>
<td>Metaphysics</td>
<td>3</td>
<td>U/G</td>
<td>jr st &amp; 3 cr in philos</td>
</tr>
<tr>
<td>324</td>
<td>Philosophy of Science</td>
<td>3</td>
<td>U/G</td>
<td>jr st &amp; 3 cr in philos</td>
</tr>
<tr>
<td>332</td>
<td>Philosophical Problems: (Subtitled)</td>
<td>3</td>
<td>U</td>
<td>jr st; 3 cr in philos</td>
</tr>
<tr>
<td>335</td>
<td>Philosophy of Biology</td>
<td>3</td>
<td>U/G</td>
<td>jr st; 3 cr in philos</td>
</tr>
<tr>
<td>337</td>
<td>Environmental Ethics</td>
<td>3</td>
<td>U/G</td>
<td>jr st; 3 cr in philos</td>
</tr>
<tr>
<td>341</td>
<td>Modern Ethical Theories</td>
<td>3</td>
<td>U/G</td>
<td>jr st &amp; 3 cr in philos</td>
</tr>
<tr>
<td>349</td>
<td>Great Moral Philosophers</td>
<td>3</td>
<td>U/G</td>
<td>jr st &amp; 3 cr in philos</td>
</tr>
<tr>
<td>350</td>
<td>Introduction to the Comparative Study of Religion</td>
<td>3</td>
<td>U/G</td>
<td>jr st; Philos 204(P), Philos/Hist/Hebr St 275(P) or Anthro 203(P)</td>
</tr>
<tr>
<td>351</td>
<td>Philosophy of Mind</td>
<td>3</td>
<td>U/G</td>
<td>jr st &amp; 3 cr in philos</td>
</tr>
<tr>
<td>355</td>
<td>Political Philosophy</td>
<td>3</td>
<td>U/G</td>
<td>jr st; Philos 242(P) or a course in ethics</td>
</tr>
<tr>
<td>358</td>
<td>Action, Will, and Freedom</td>
<td>3</td>
<td>U/G</td>
<td>jr st, 3 cr philos; or grad st</td>
</tr>
<tr>
<td>360</td>
<td>Philosophy of Perception</td>
<td>3</td>
<td>U/G</td>
<td>jr st; 3 cr in Philos</td>
</tr>
<tr>
<td>381</td>
<td>Honors Seminar: (Subtitled)</td>
<td>3H</td>
<td>U</td>
<td>soph st; Honors 200(P); cons Honors College dir</td>
</tr>
<tr>
<td>384</td>
<td>(560) The Philosophy of Law</td>
<td>3</td>
<td>U/G</td>
<td>jr st; 3 cr philos or previous course in political theory or law studies recom</td>
</tr>
<tr>
<td>430</td>
<td>History of Ancient Philosophy</td>
<td>3</td>
<td>U/G</td>
<td>From the pre-Socratics to Augustine. Particular emphasis on Plato and</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td></td>
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<tr>
<td>431</td>
<td>History of Medieval Philosophy</td>
<td>3 cr</td>
<td>U/G</td>
<td>Critical and historical examination of writings of medieval philosophers such as Augustine, Anselm, Aquinas, Duns Scotus, Ockham, Al Farabi, Maimonides. Prereq: jr st &amp; 3 cr in philos.</td>
</tr>
<tr>
<td>432</td>
<td>History of Modern Philosophy</td>
<td>3 cr</td>
<td>U/G</td>
<td>From Descartes through Kant. Prereq: jr st &amp; 3 cr in philos.</td>
</tr>
<tr>
<td>435</td>
<td>Existentialism</td>
<td>3 cr</td>
<td>U/G</td>
<td>Analysis of existentialist thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, and Merleau-Ponty. Prereq: jr st &amp; 3 cr in philos.</td>
</tr>
<tr>
<td>461</td>
<td>Islamic Philosophy and Mysticism</td>
<td>3 cr</td>
<td>U/G</td>
<td>Problems central to Islamic theology, philosophy, and mysticism, and their relations to the teachings of Islam. Prereq: jr st &amp; 3 cr in philos.</td>
</tr>
<tr>
<td>474</td>
<td>Contemporary Religious Thought</td>
<td>3 cr</td>
<td>U/G</td>
<td>Analysis of two or more contemporary religious thinkers (e.g., Buber, Heschel, Tillich, Barth, Bultmann, death-of-God theologians, Moltmann, Pannenberg, Rahner, Chardin). Difficulties and objections are discussed. Retakable w/chg in topic to 9 cr max. Prereq: jr st, 3 cr in philos.</td>
</tr>
<tr>
<td>475</td>
<td>Special Topics in Indian Religious Thought</td>
<td>3 cr</td>
<td>U/G</td>
<td>Intensive study of selected Hindu and Indian Buddhist thinkers and schools of thought, e.g. the Vedanta of Sankara and Ramanuja, Mahayana thought, modern Vedanta, Gandhi. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 3 cr in philos.</td>
</tr>
<tr>
<td>489</td>
<td>Internship in Philosophy, Upper Division</td>
<td>1-6 cr</td>
<td>U</td>
<td>Application of advanced principles of philosophy in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in philos; 2.25 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>497</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr</td>
<td>U/G</td>
<td>Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.</td>
</tr>
<tr>
<td>499</td>
<td>Ad Hoc: (Subtitled)</td>
<td>1-6 cr</td>
<td>U</td>
<td>Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.</td>
</tr>
<tr>
<td>502</td>
<td>Phenomenology of Religion</td>
<td>3 cr</td>
<td>U/G</td>
<td>A comparative examination of types of religious experience and expression; the holy or sacred, mysticism, prophecy, myth and ritual, religious communities and/or leaders, etc. Prereq: jr st &amp; 3 cr in philos.</td>
</tr>
<tr>
<td>511</td>
<td>Symbolic Logic</td>
<td>3 cr</td>
<td>U/G</td>
<td>First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability. Jointly-offered w/ &amp; counts as repeat of CompSci/Math 511. Prereq: jr st, either Philos 212(P) or 6 cr math at the 300-level or above; or grad st.</td>
</tr>
</tbody>
</table>
516 Language and Meaning. 3 cr. U/G. Philosophical issues of the semantics, syntax and pragmatics of language; relations between philosophy of language and metaphysics, epistemology and philosophy of science. Prereq: jr st & Philos 101(P) or 432(P).

517 Special Problems in the Philosophy of Language and Linguistics: 3 cr. U/G. In depth study of one or more topics concerning the nature of language; its acquisition, use and formal structures. Retakable w/chg in topic & cons advisor & instr to 6 cr max. Prereq: jr st; 3 cr in philos.

518 Philosophy of History. 3 cr. U/G. The nature of historical knowledge and belief in terms of the justification of historical narration, explanation and prediction. Prereq: jr st & 3 cr in philos.

519 Special Problems in Metaphysics and Epistemology: (Subtitled). 3 cr. U/G. Intensive study in such topics as perception, skepticism, induction, mathematical knowledge, universals, causality, substance, determinism, possibility. Retakable w/chg in topic to 9 cr max. Prereq: jr st & 3 cr in philos.

520 Philosophy of the Natural Sciences. 3 cr. U/G. The nature and function of science; the logic of scientific method; clarification of such concepts as cause, law, theory, probability, determinism, and teleology. Prereq: jr st & 3 cr in philos.

521 Philosophy of the Social Sciences. 3 cr. U/G. The nature and scope of the social sciences; explanatory, interpretive, and normative concerns in theory construction, their interconnection, and their methodological implications. Prereq: jr st & 3 cr in philos.

522 Special Topics in the Philosophy of Science: (Subtitled). 3 cr. U/G. Consideration of one or more of the following: logic of theory construction, theoretical entities, measurement, nature of laws, conventionalism, operationalism, and induction. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

532 Philosophical Problems: (Subtitled). 3 cr. U/G. Intensive study of one or two particular problems, such as determinism and freedom, ethical relativism, memory, or perception. Retakable w/chg in topic to 9 cr max. Prereq: jr st & 3 cr in philos.

535 Philosophical Topics in Feminist Theory: (Subtitled). 3 cr. U/G. Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised. Retakable w/chg in topic to 6 cr max. Philos 535 & Wmns 535 are jointly offered; with same topic, they count as repeats of one another. Prereq: jr st; a course in philos or women's stds.

542 Punishment and Responsibility. 3 cr. U/G. Views on the moral permissibility of punishment and other forms of penalization; the foundations of a general theory of moral responsibility. Prereq: jr st & 3 cr in philos. Philos 241(R) or social science background recom.

555 (455) Recent Philosophy: (Subtitled). 3 cr. U/G. Intensive study of one or more philosophers or philosophical
movements of the recent past. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 3 cr philos.

562 Special Topics in Ethics and Social and Political Philosophy: (Subtitled). 3 cr. U/G. Intensive study of issues such as the concept of law, punishment, liberty, civil disobedience, the public good, and the applicability of scientific method to social issues. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 3 cr philos.

681 Seminar in Advanced Topics: (Subtitled). 3 cr. U/G. Seminar on a philosopher, philosophical movement, issue, or problem for majors and graduate students. Research papers required. Additional prereqs announced in Schedule of Classes each time course is offered. Retakable w/chg in topic to 9 cr max. Prereq: sr st & 12 cr in philos at 300-level or above; or grad st.

685 Senior Capstone Research Seminar: (Subtitled). 3 cr. U. Seminar study of a philosopher, philosophical movement, text, or topic for senior philosophy majors. Research paper and presentation required. Satisfies L&S research req. Retakable w/chg in topic to 6 cr max. Prereq: sr st; declared Philos major; or cons instr.

699 Independent Work. 2-3 cr. U. See Advanced Independent Work, undergrad bulletin. Retakable w/chg in topic to 9 cr max. Only 6 cr count toward Philos major. No more than 3 cr with any one instr except with writ cons dept. Prereq: jr st; 3.0 in major or 3.0 overall gpa, & writ cons instr, dept chair, & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.
100 Quantitative Preparation for Physics. 2 cr. U. Introductory course in general physics designed for the student with little or no previous science training. Fee for 3 cr assessed. Not open to students w/cr in Physics 110(ER), 120(ER), or 209(ER). Prereq: math placement level D.

107 Physics in Everyday Life. 3 cr. U. Selected topics for citizens in a technological world. Emphasis on those aspects of science important to an understanding of our surroundings. For non-science majors. May not be taken conc with or after having taken Physics 120(ER) or 209(ER). Prereq: none.


110 Physics for the Health Professions. 4 cr. U. An introductory course without laboratory for students in health-related pre-professional programs. Topics include mechanics, fluids, heat, sound, electricity, magnetism, electrical devices, optics, and radioactivity. 3 hrs lec, 1 hr dis. May not be taken conc with or after having taken Physics 120(ER) or 209(ER). Prereq: H.S. general science; math placement level C.

120 (effective 09/02/2015) General Physics I (Non-Calculus Treatment). 4 cr. U. Mechanics, wave motion, heat, and sound. 3 hrs lec, 2 hrs dis. Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation. Prereq: math placement level B or grade of C or better in Physics 100(P); HS trig or Physics 100 strongly recom.

120 General Physics I (Non-Calculus Treatment). 4 cr. U. Mechanics, wave motion, heat, and sound. 3 hrs lec, 2 hrs dis. Any combination of Physics 120, 121, 209, 214 carries max 5 cr toward graduation. Prereq: math placement level B or grade of C or better in Physics 100(P); HS trig or Physics 100 strongly recom.

121 General Physics Laboratory I (Non-Calculus Treatment). 1 cr. U. Experiments correlated with lecture material of Physics 120. Any combination of Physics 120, 121, 209, 214 carries 5 cr max toward graduation. Prereq: Physics 120(C).

121 (effective 09/02/2015) General Physics Laboratory I (Non-Calculus Treatment). 1 cr. U. Experiments correlated with lecture material of Physics 120. Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation. Prereq: Physics 120(C).


123 General Physics Laboratory II (Non-Calculus Treatment). 1 cr. U. Experiments on topics related to the lecture material of Physics 122.|Any combination of Physics 122, 123, 210, 215 carries 5 cr max toward graduation. Prereq: Physics 122(C).

123 (effective 09/02/2015) General Physics Laboratory II (Non-Calculus Treatment). 1 cr. U. Experiments on topics related to the lecture material of Physics 122.|Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation. Prereq: Physics 122(C).

185 (effective 09/02/2015) Basic Physics for Teachers. 3 cr. U. Simple machines; work, energy and power; heating and cooling; static electricity and elementary electrical circuits; waves. 2 hrs lec; 2 hrs lab/dis.|Not open for cr to students with cr in Physics courses numbered 110 or above. Prereq: Math 175(P) & cons instr.

185 Basic Physics for Teachers. 3 cr. U. Simple machines; work, energy and power; heating and cooling; static electricity and elementary electrical circuits; waves. 2 hrs lec; 2 hrs lab/dis.|Not open for cr to students with cr in Physics courses numbered 110 or above. Prereq: Math 176(P) & cons instr.

194 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair & asst dean for SAS.

209 Physics I (Calculus Treatment). 4 cr. U. Selected topics in mechanics, wave motion, sound, and heat. 3 hrs lec, 2 hrs dis.|Any combination of Physics 120, 121, 209, 214 carries max 5 cr toward graduation. Prereq: Math 227(C), 228(C), or 232(C).

209 (effective 09/02/2015) Physics I (Calculus Treatment). 4 cr. U. Selected topics in mechanics, wave motion, sound, and heat. 3 hrs lec, 2 hrs dis.|Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation. Prereq: Math 227(C), 228(C), or 232(C).

210 Physics II (Calculus Treatment). 4 cr. U. Continuation of Physics 209. Electromagnetic field theory and optics. 3 hrs lec, 2 hrs dis.|Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation. Prereq: grade of C- or better in Physics 209(NP); Math 229(C) or 233(C).

210 (effective 09/02/2015) Physics II (Calculus Treatment). 4 cr. U. Continuation of Physics 209. Electromagnetic field theory and optics. 3 hrs lec, 2 hrs dis.|Any combination of Physics 122, 123, 210, 215 carries max 5 cr toward graduation. Prereq: grade of C- or better in Physics 209(NP); Math 229(C) or 233(C).


214 Lab Physics I (Calculus Treatment). 1 cr. U. Experiments in mechanics, wave motion, heat, and thermodynamics. 3 hrs lab.|Any combination of Physics 120, 121, 209, 214 carries 5 cr max toward graduation. Prereq: Physics 209(C).


219 (effective 09/02/2015) Physics I: Calculus-Based, Studio Format. 5 cr. U. Basic kinematics; Newton. Selected topics in mechanics, wave motion, sound, and heat. 8 hrs lec/lab.|Not open to students w/cr in Physics 209. Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation. Prereq: Math 227(C), 228(C), or 232(C).

220 (effective 09/02/2015) Physics II: Calculus-Based, Studio Format. 5 cr. U. Electromagnetic field theory and optics.|Not open to students w/cr in Physics 210. Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation. Prereq: grade of C or better in Physics 219(NP); Math 229(C) or 233(C).

265 Physics and the Energy Problem. 3 cr. U. Study of how the laws of physics (particularly 1st and 2nd Laws of Thermodynamics) limit society's options in dealing with scarcity of utilizable energy.|Prereq: H.S. algebra; Physics 107(P), 110(P), 120(P), or 209(P).

270 Introduction to Computational Physics. 3 cr. U. Use of computers to solve physics problems, including particle collisions, chaotic systems, planetary motion, and other topics related to relativity and quantum mechanics.|Prereq: Physics 209(P); Math 233(C).

289 Internship in Physics, Lower Division. 1-6 cr. U. Application of basic principles of physics in a research, business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in physics; 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One cr for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance into UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/change in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

305 Medical Physics. 3 cr. U. Applications of physics to living systems & medical diagnostics. 3 hrs lec.|Primarily for premed students and others in the medical & biological sciences. Approved for Premed Stats Cert Prog. Prereq: grade of B+ or better in Physics 209(P). (Conc reg in Physics 210 strongly recom).

306 Introduction to Biophysics. 3 cr. U. Physical foundations of cellular phenomena; physical laws of complex biological systems; imaging and instrumentation for biophysics. 3 hrs lec.|Approved for Premed Stats Cert Prog. Prereq: Physics 122(P) or 210(P); Chemistry 104(P) or 105(P).

309 Physics III: Modern Physics. 3 cr. U. Elementary quantum physics, atomic and molecular physics, solid state and nuclear physics.|Not open for cr to students who have had Physics 341. Prereq: Physics 210(NP); Math 234(C).

317 Thermodynamics. 3 cr. U. Classical thermodynamics, including entropy, the use of thermodynamic potentials, and applications to pressure-volume and other systems. Some basic statistical physics may be included.|Prereq: Physics
210(NP).


333 A Historical Thread through Twentieth-Century Physics. 3 cr. U. Planck (1900) to Schrödinger's 1926 law of motion; interaction of system and instrument to fix rules of measurement; the notion of plural realities.|Prereq: Physics 122(P) or 210(P); some familiarity with matrices recom.

351 Basics of Condensed Matter Physics. 3 cr. U. Basic principles of condensed-matter physics. Crystals and amorphous materials; bonding; magnetic, thermal, and transport properties; band theory.|Counts as repeat of Physics 499 w/same topic. Prereq: Physics 309(P) or Chem 311(P).

370 Computational Physics. 3 cr. U. Numerical solutions to various physics problems. Applications from mechanics, electrodynamics, quantum mechanics, astrophysics, condensed matter physics. Emphasis on writing original computer programs, visualizing output data.|Prereq: Physics 309(P); Math 234(P) or ElecEng 234(P); Physics 270(P) or CompSci 151(P); or cons instr.

381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics concerning history and the nature of physics as an intellectual discipline.|Retakable w/chg in topic to 9 cr max. No cr toward major. Prereq: soph st; Honors 200(P); cons Honors College dir.

391 Undergraduate Research Participation. 1-6 cr. U. Independent research for undergraduates on faculty-supervised research projects.|Prereq: Physics 309(P); cons instr.

406 Introduction to Infrared Microspectroscopy. 3 cr. U. Microscopy and spectroscopy methods for identification of chemical composition introducing interdisciplinary opportunities in fundamental and industrial applications.|Prereq: Bio Sci 150(P) & 152(P); or Physics 209(P) & 210(P); or Chem 102(P) & 104(P); or Chem 105(P).

408 Experiments in Linear Electronics. 3 cr. U/G. Transistor and integrated circuit characteristics; electronic measurement and control.|No cr for students w/cr in ElecEng 330(R). Prereq: jr st; Physics 210(P).

409 Modern Physics Laboratory. 3 cr. U. Selected experiments in modern physics using advanced lab instrumentation.|Prereq: jr st; Physics 309(P) or cons instr.


420 Electricity and Magnetism I. 3 cr. U/G. Electrostatics, capacitance, boundary value problems, multipole expansion, dielectrics, magnetostatics, vector potential, magnetic properties of matter, motional emf, inductance, Maxwell's equations in differential form.|Counts as repeat of 2 cr of Physics 421. Prereq: jr st; Physics 210(NP); a grade of B- or better in Math 321(P); or Math 321(P) and a grade of B- or better in Physics 370(P); or grad st.

422 Electricity and Magnetism II. 3 cr. U/G. Conservation laws in electrodynamics, Maxwell's stress tensor, electromagnetic waves, absorption, dispersion, reflection and transmission of plane electromagnetic waves, wave guides, retarded potentials, radiation, electrodynamics and relativity.|Counts as repeat of 2 cr of Physics 421. Prereq: jr st, Physics 420(P); or grad st.


442 Introduction to Quantum Mechanics II. 3 cr. U/G. Continuation of Physics 441, emphasizing perturbation theory
and applications to multi-electron systems, including atoms, molecules, and solids. Prereq: jr st; Physics 441(NP).

463 Introduction to Atmospheric Physics. 3 cr. U/G. Atmospheric phenomena not directly linked with the general circulation: refraction and scattering, visibility, radiation transfers, optics, aerosols and cloud particles, acoustics, radar, atmospheric electricity. Not available for grad cr at this time. Prereq: jr st; Physics 210(P), Math 232(P), or Atm Sci 350(P).

469 Internship in Physics, Upper Division. 1-6 cr. U. Application of advanced principles of physics in a research, business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Physics; 2.25 gpa; cons supervising faculty member.

477 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Undergraduate Physics Seminar. 1 cr. U. Talks by faculty, visitors, and students on topics of current interest in physics, astronomy, and other science and engineering fields. Cr/no cr only. Prereq: sr st; Physics 411(C), 421(C), or 441(C).

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prerequisites may be assigned to specific topic.

501 Special Topics: Mathematical Models of Physical Problems I. 3 cr. U/G. Selected topics in mathematics for study of the techniques and procedures for stating physical problems in mathematical terms and the physical interpretation of mathematical solutions. Prereq: jr st; Physics 210(P); Math 234(P).


515 Statistical Mechanics. 3 cr. U/G. Brief survey of thermodynamics; statistical mechanics; classical and quantum gases. Prereq: jr st; Physics 317(P) & 441(P).

517 Special Relativity. 3 cr. U/G. Relativistic kinematics, the Lorentz transformation, tensor calculus, applications to motion of particles, electromagnetism. Prereq: jr st; Physics 411(R) & 421(R).

531 Principles of Quantum Mechanics I. 3 cr. U/G. Vector and Hilbert spaces; Schroedinger equation in 1, 2, and 3 dimensions; systems of many particles; symmetries; angular momentum. Prereq: jr st; Physics 441(P).

532 Principles of Quantum Mechanics II. 3 cr. U/G. Continuation of 531. Spin; hydrogen atom; variational methods; WKB approximation; perturbation theory; scattering theory; Dirac equation. Prereq: jr st; Physics 531(P).

541 Elementary Particles. 3 cr. U/G. Accelerators and detectors; special unitary groups; quark model of hadrons; Feynman diagrams; electromagnetic, weak and strong interactions of quarks and leptons; Higgs boson. Prereq: jr st; Physics 441(P).

551 Introduction to Solid State Physics I. 3 cr. U/G. Crystal structure, reciprocal lattice; crystal binding; elastic waves; phonons, lattice vibrations; thermal properties of insulators; free electron Fermi gas. Band structure; semiconductor crystals; Fermi surface. Prereq: jr st; Physics 441(P) or cons instr.

575 Vacuum Science and Technology. 3 cr. U/G. Viscous and molecular flow, vacuum materials and seals, metal-to-ceramic seals, evaporation and vapor pressures, vacuum pumps, vacuum gauges, mass spectrographs, chemical reactions at surfaces, outgassing. Prereq: jr st; Physics 441(P).

610 The Art and Science of Teaching Physics. 1 cr. U/G. Participants critique lectures, videotapes of experienced teachers, each other; address conceptual problems facing beginning students; gain familiarity with demonstrations, classroom technology; discuss their own classes.|Prereq: appt as undergrad TA or grad st.

651 Introduction to Solid State Physics II. 3 cr. U/G. Transport, superconductivity, dielectric properties, ferroelectric crystals, magnetism, magnetic resonance, optical phenomena in insulators, nanostructures, non-crystalline solids, point defects, alloys, dislocations.|Prereq: jr st; Physics 551(P).

670 Electron Microscopy Laboratory. 3 cr. U/G. Diffraction, imaging, and spectroscopy methods for study of morphology, crystallinity, and composition of solids in a transmission electron microscope.|Prereq: sr st; Physics 551(P) or cons instr.

698 Research Experience for Teachers. 1-6 cr. U/G. Enrichment of students' physics background. Work with faculty mentor to develop an innovative teaching program for use in students' own classroom.|Open only to practicing science teachers with demonstrable expertise in physics. May be retaken to 9 cr max. Prereq: sr st; current teaching contract.

699 Advanced Independent Reading. 1-3 cr. U. Independent reading or research under supervision of faculty member. Study proposal required. For further information, consult dept chair or undergrad advising coord.|Retakable w/chg in topic to 6 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, & assoc dean for SAS.
101 First-Semester Polish. 5 cr. U. A systematic introduction to the Polish language. Prereq: none.


192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-4 cr. U. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.


202 Fourth-Semester Polish. 3 cr. U. Continuation of Polish 201. Prereq: Polish 201(P). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages. Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Linguis 213, Russian 213, & Spanish 213. Prereq: none.

236 Polish Culture in its Historical Setting. 3 cr. U. Major achievements of Polish culture during ten centuries of existence. Art, architecture, literature, music, and film viewed against crucial historical developments that formed Poland and its people. May be used to repeat Geog 236. Prereq: none.


289 Internship in Polish, Lower Division. 1-6 cr. U. Application of basic principles of Polish in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Polish; 2.25 gpa; cons supervising faculty member.

290 Summer Study in Poland: (Subtitled). 2-6 cr. U. Studies in Polish language, culture and civilization at a Polish university; lectures and field trips; credit level determined by length of program. | Retakable w/chg in topic. Prereq: cons instr.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

397 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. | Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

489 Internship in Polish, Upper Division. 1-6 cr. U. Application of advanced principles of Polish in a business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Polish; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. | Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. | Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Supervised Individual Reading. 1-6 cr. U. Advanced independent work under the supervision of a Slavic Lang faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Slavic Lang prog coord. | Retakable w/chg in topic. Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
POL SCI Political Science

243 Public Administration. 3 cr. U. The means used to implement political values with emphasis on problems of administration in modern government. [Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another. Prereq: none.]

American Politics

110 Sex and Power. 3 cr. U. Study of gender, sex, and sexuality as determined by law, power, and politics. [Prereq: none.]

210 American Public Policy. 3 cr. U. Introduction to substantive policy issues and forces which influence their progress. Emphasis upon major values within political conflicts and the gap between policy goals and program implementation. [American politics course. Prereq: none.]

213 Urban Government and Politics. 3 cr. U. The management, politics, and problems of city government. [American politics course. Prereq: none.]

215 Ethnicity, Religion and Race in American Politics. 3 cr. U. Nationality, racial and religion-based groups in American domestic and foreign policy-making; significance of cultural pluralism as a factor in the American political experience. [American politics course. Prereq: none.]

250 Law and Society. 3 cr. U. The law and the operation of the legal system as they relate to contemporary social issues. [American politics course. Prereq: none.]


388 Latino Politics. 3 cr. U. Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses; Chicano movement, immigration policies, public opinion, voting behavior, representation. [Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another. Prereq: jr st.]
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>405</td>
<td>State Government: (Subtitled)</td>
<td>3 cr</td>
<td>U/G</td>
<td>Selected topics in state government and politics with special emphasis on Wisconsin. Retakable w/chg in topic to 6 cr max. American politics course. Prereq: jr st.</td>
</tr>
<tr>
<td>408</td>
<td>The American Presidency</td>
<td>3 cr</td>
<td>U/G</td>
<td>Study of the office and powers of the president, with an analysis of his major roles as chief administrator, legislative leader, political leader, initiator of foreign policies, Commander-in-Chief and head of state. American politics course. Prereq: jr st.</td>
</tr>
<tr>
<td>416</td>
<td>Judicial Process</td>
<td>3 cr</td>
<td>U/G</td>
<td>Trial and appellate court structure; litigation in federal and state contexts; key actors in the judicial process, including litigants, lawyers, judges, and juries. American politics course. Prereq: jr st.</td>
</tr>
<tr>
<td>417</td>
<td>The Supreme Court</td>
<td>3 cr</td>
<td>U/G</td>
<td>Behavior of U.S. Supreme Court justices and other appellate judges and courts within the judicial and political systems. American politics course. Prereq: jr st.</td>
</tr>
<tr>
<td>419</td>
<td>Constitutional Interpretation</td>
<td>3 cr</td>
<td>U/G</td>
<td>Analysis of contemporary interpretive themes, including judicial activism, the living Constitution, and critical theories of law. American politics course. Prereq: Pol Sci 411(P) or 412(P).</td>
</tr>
<tr>
<td>421</td>
<td>Party Politics in America</td>
<td>3 cr</td>
<td>U/G</td>
<td>The role of political parties in the nominating process, campaigns, fund raising, voter choice, and the governing processes of Congress and the presidency. American politics course. Prereq: jr st; Pol Sci 103(P) or 104(P).</td>
</tr>
<tr>
<td>425 (225)</td>
<td>Women in Politics</td>
<td>3 cr</td>
<td>U</td>
<td>Political attitudes and behavior of women; socialization and selection of women for political offices; and women's issues in politics. American politics course.</td>
</tr>
<tr>
<td>426</td>
<td>Congressional Politics</td>
<td>3 cr</td>
<td>U/G</td>
<td>The role of Congress in shaping public policy, with emphasis on the impact of elections, lawmaking procedures, congressional committees, political parties, interest groups, and presidents. American politics course. Prereq: jr st.</td>
</tr>
<tr>
<td>452</td>
<td>Administrative Law</td>
<td>3 cr</td>
<td>U/G</td>
<td>An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory, investigatory, and enforcement activities of administrative agencies. American politics course. Pol Sci 452 &amp; Pub Adm 452 are jointly offered; they count as repeats of one another. Prereq: jr st.</td>
</tr>
<tr>
<td>464</td>
<td>Sex, Gender, and the Law</td>
<td>3 cr</td>
<td>U/G</td>
<td>Topics in federal and state law pertaining to women, gender, and feminism, such as reproductive rights, domestic violence, and pay equity. American politics course. Prereq: jr st.</td>
</tr>
<tr>
<td>471</td>
<td>Problems in Law Studies: (Subtitled)</td>
<td>3 cr</td>
<td>U/G</td>
<td>Discussion of selected problems in contemporary law and</td>
</tr>
</tbody>
</table>
politics, such as civil rights movements or law and sexuality. | Retakable w/chg in topic to 6 cr max. American politics course. Prereq: jr st.


Comparative Politics


301 British Politics. 3 cr. U/G. Political process in Great Britain in the context of contemporary national setting; emphasis on party system and constitutional order. | Comparative politics course. Prereq: jr st.


310 Russian and Post-Soviet Politics. 3 cr. U/G. Domestic politics of Russia and the other states of the former Soviet Union; special emphasis is placed on transitions to and from authoritarianism, political institutions, and market reforms. | Comparative politics course. Prereq: jr st.


320 Politics of Developing Countries. 3 cr. U/G. Comparative analysis of political problems confronting developing countries. | Comparative politics course. Prereq: jr st.

321 Politics of Revolution in Developing Nations. 3 cr. U/G. The theory and description of political revolutions and rapid political change in the twentieth century. | Comparative politics course. Prereq: jr st.

325 Latin American Politics. 3 cr. U/G. Analysis of contemporary governments in Latin America, with particular emphasis on the social way of life, the politics of economic organization and government in action. | Comparative politics course. Prereq: jr st.

326 Brazilian Politics and Society. 3 cr. U. Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social environment. | Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another. Prereq: jr st.


328 The Arab-Israeli Conflict. 3 cr. U/G. Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions. | Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic. Prereq: jr st.
329 African Politics. 3 cr. U/G. The process of political change in contemporary Africa, with emphasis on the problems of nationalism and nation-building. Comparative politics course. Prereq: jr st; Pol Sci 106(R).


334 German Politics and the New Europe. 3 cr. U/G. Development of the two German republics after 1945; domestic and European issues of a unified Germany. Comparative politics course. Prereq: jr st.

335 Comparative Political Systems. 3 cr. U/G. Government and politics in various Western and developing countries, stressing common experience as well as differences conditioned by diverse circumstances. Comparative politics course. Prereq: jr st.


368 Gender and Politics in Developing Nations. 3 cr. U/G. Gender and politics in Latin America, East/South Asia, the Middle East, integrating works from political science, feminist theory, development studies, public health, women's studies. Counts as a repeat of Pol Sci 333 w/same subtitle. Enrollment limited to 15 students. Comparative politics course. Prereq: jr st.


International Politics

316 International Law. 3 cr. U/G. Rules and principles of behavior which govern nations in their relations with one another, as illustrated in texts and cases. International politics course. Prereq: jr st.


338 Seminar in International Relations: (Subtitled). 3 cr. U/G. Intensive study in selected aspects of international relations. Add'l prereqs announced in Schedule of Classes each time course is offered. Retakable w/chg in topic to 6 cr max. Enrollment limited to 15 students. International politics course. Prereq: jr st.

339 European Integration. 3 cr. U/G. Evolution of the European Union, its institutions, and key policy
developments related to the single market, common currency, enlargement, and the democratic deficit. | Comparative or international politics course. Prereq: jr st.

340 Politics of Nuclear Weapons. 3 cr. U/G. Survey of nuclear war issues, including the effects of nuclear weapons, defense against nuclear attack, arms control, nuclear weapons proliferation, and nuclear ethics. | International politics course. Prereq: jr st; course in pol sci or related field recom.

343 (244) Asian International Relations. 3 cr. U. Analysis of recent relations of the major powers in East, Southeast, and South Asia, especially the problems of the smaller states and the role of the United States. | International politics course. Prereq: jr st.

346 (246) U.S.-Latin American Relations. 3 cr. U. Historic and contemporary inter-American relations, including issues such as U.S.-Cuban relations, drug trafficking, trade integration, international finance, and migration. | International politics course. Prereq: jr st.

359 Problems of American Foreign Policy. 3 cr. U/G. Analysis of problems confronting the United States in principal regions of the world, emphasizing the content and instrumentalities of recent policy, and considering alternative solutions. | International politics course. Prereq: jr st.


423 Conduct of American Foreign Affairs. 3 cr. U/G. Descriptive analysis of the way American foreign policy is formulated and carried out by federal agencies. | International Politics course. Prereq: jr st.

Introductory Courses

103 Introduction to Political Science. 3 cr. U. An introduction to the systematic study of politics, including voting, parties, interest groups, executives, legislatures, courts, and political ideologies. | Prereq: none.

104 Introduction to American Government and Politics. 3 cr. U. How the American political system works, with emphasis on the Constitution, elections, political parties, interest groups, Congress, the presidency, the courts, and national policy making. | Prereq: none.

105 State Politics. 3 cr. U. Processes and functions of state governments and their relations with the national government and local governments; special emphasis on Wisconsin politics. | Prereq: none.

106 Politics of the World's Nations. 3 cr. U. Introduction to political issues facing the governments of industrialized and developing nations, democratic and authoritarian, considering the similarities and differences between these nations and America. | Prereq: none.

175 Introduction to International Relations. 3 cr. U. Introduction to international relations, including the major subfields. Essential characteristics of the international system and the foreign policy objectives of states are discussed to give the beginning student a clearer view of world politics. | Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). | Prereq: none.

Political Methodology Courses
203 Introduction to Political Science Research. 3 cr. U. An overview of quantitative political science research. The role of theory, research design, and measurement. Research methods course. Prereq: one pol sci course.


Political Theory

255 (155) Great Issues of Politics. 3 cr. U. Major problems in political thought, such as war and peace, justice and power, liberty and authority, identity and alienation, and stability and change. Political theory course. Prereq: none.

281 Classics of Political Theory. 3 cr. U. Power, authority, liberty, justice, law, and other basic ideas of politics and government as treated in the classic works of political thought. Political theory course. Prereq: soph st.

361 History of International Political Thought. 3 cr. U/G. History of international political thought. Statist and internationalist theories of sovereignty, war, intervention, and international law. Political theory or international politics course. Prereq: jr st.

381 The Development of Western Political Thought. 3 cr. U/G. Political theory from the Greek era to the present. Political theory course. Prereq: jr st; grade of C or better in English 102(P) or score level 4 on EPT.

382 Modern Political Thought. 3 cr. U/G. Liberal democracy, traditional conservatism, fascism, communism and socialism, with emphasis on the development and problems of democracy. Political theory course. Prereq: jr st.

384 (560) The Philosophy of Law. 3 cr. U/G. The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment. Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another. Political theory course. Prereq: jr st; 3 cr in philos or previous course in political theory or law studies recom.

385 American Political Thought. 3 cr. U/G. Survey of main currents of American political thought from colonial times to the present. Political theory course. Prereq: jr st.

386 Contemporary Political Theory. 3 cr. U/G. Survey of current work in different branches of political theory, including formal, analytical, and critical theory. Political theory course. Prereq: jr st.

389 Politics and Philosophy. 3 cr. U/G. Ideas and methods in recent political theory, including the history of political thought, analytical political philosophy, and critical theory. Political theory course. Retakable w/chg in topic to 6 cr max. Prereq: jr st; one course in political theory.

Special Courses

284 Introduction to ULEAP. 1-3 cr. U. Undergraduate Laboratory for Empirical Analysis of Politics (ULEAP). Hands-on research lab for recurring ULEAP projects. Students assist faculty with research projects, develop quantitative research skills. Requires 40 hrs of supervised research per cr. Retakable to 9 cr max. Prereq: cons instr.
296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs & srs. Prereq: acceptance into UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/topic chg. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

380 Honors Seminar: (Subtitled). 3H cr. U. Selective topics in the study of politics. Retakable w/chg in topic to 9 cr max. Political theory course. Prereq: soph st; Honors 200(P); cons Honors College dir.


489 Internship in Political Science. 1-6 cr. U. Application of advanced principles in political science in a governmental or political setting. One cr earned for academic work related to each 40 hrs of internship work. Retakable to 6 cr max. Prereq: jr st; 3.0 GPA; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/topic chg. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Capstone Course in Political Science. 3 cr. U. Readings and discussions about fundamental political science problems; directed research project tailored to each student's special interests. Prereq: sr st; declared pol sci major; Pol Sci 203(P), 390(P), or 392(P).

678 Advanced Undergraduate Laboratory for the Empirical Analysis of Politics. 1-3 cr. U. Advanced students enhance their research skills by assisting faculty members on political science research projects in collaboration with other students. Requires 40 hrs of supervised research per cr. Retakable to 9 cr max. Prereq: jr st; cons instr.

699 Independent Reading. 1-6 cr. U. Students with superior grade-point averages and special aptitudes may be given permission to earn up to 6 cr toward the major by writing a thesis or doing directed research or reading. See Advanced Independent Study for further information. Consult the Political Science Chair. Retakable w/chg in topic. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, & assoc dean for SAS.
PORTUGS Portuguese

103 First-Semester Portuguese. 4 cr. U. Beginner-level Portuguese; listening, speaking, reading, writing, and grammar. Language laboratory required. | Prereq: none.

104 Second-Semester Portuguese. 4 cr. U. Continuation of Portugs 103. | Prereq: Portugs 103(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

110 Accelerated Portuguese I. 3 cr. U. Accelerated beginner-level course designed to enable students to develop comprehensive listening, speaking, reading, and writing skills in Portuguese. | Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). | Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/change in topic. | Retakable w/change in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. For further information, consult department chair. | Retakable w/chg in topic to 6 cr max. Prereq: 2.5 gpa, cons instr, dept chair, & assoc dean for SAS.


215 Portuguese Weekend Immersion Experience: (Subtitled). 1 cr. U. Immersion experience for students at the intermediate and advanced levels designed to expose them to the Portuguese language and culture. | Retakable w/chg in topic to 6 cr max. Prereq: Portugs 104(P) or 110(P) or cons instr.
<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>225</td>
<td>Understanding Brazil: (Subtitled)</td>
<td>3 cr.</td>
<td>U. Topics in Brazilian culture and society. Retakable w/chg in topic to 9 cr max. Prereq: none.</td>
</tr>
<tr>
<td>277</td>
<td>Portuguese Discussion Section: 1 or 2 cr.</td>
<td>U.</td>
<td>U. Discussion in Portuguese, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max. Prereq: Portugs 204(P) or cons instr.</td>
</tr>
<tr>
<td>289</td>
<td>Internship in Portuguese, Lower Division. 1-3 cr.</td>
<td>U.</td>
<td>U. Application of basic principles of Portuguese in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 3 cr max. Prereq: intro course in Portugs; 2.25 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>297</td>
<td>Study Abroad: (Subtitled). 1-12 cr.</td>
<td>U.</td>
<td>Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.</td>
</tr>
<tr>
<td>299</td>
<td>Ad Hoc: (Subtitled). 1-6 cr.</td>
<td>U.</td>
<td>Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.</td>
</tr>
<tr>
<td>310</td>
<td>Advanced Composition and Conversation. 3 cr.</td>
<td>U.</td>
<td>Designed to develop students' oral and writing skills. Prereq: Portugs 204(P) or equiv. Generates L&amp;S credit for demonstrated equivalent preparation (14 retro cr).</td>
</tr>
<tr>
<td>313</td>
<td>Advanced Speaking and Listening. 3 cr.</td>
<td>U.</td>
<td>Practice in speaking and listening for advanced students through discussion of Luso-Brazilian audiovisual and/or multi-media cultural tools; follow-up reading, writing, and grammar activities. Generates L&amp;S credit for demonstrated equivalent preparation (14 retro crs). Prereq: Portugs 204(P) or equiv.</td>
</tr>
<tr>
<td>360</td>
<td>Luso-Brazilian Culture: (Subtitled). 3 cr.</td>
<td>U.</td>
<td>One or more aspects of contemporary culture in the Portuguese-speaking world. In English. Retakable w/chg in topic to 9 cr max. Prereq: jr st or cons instr.</td>
</tr>
<tr>
<td>380</td>
<td>Luso-Brazilian Literature in Translation: (Subtitled). 3 cr.</td>
<td>U.</td>
<td>Selected works of Brazilian, Portuguese, and/or African Lusophone literature from different periods and genres, and representing several subjects. Retakable w/chg in topic to 9 cr max. Prereq: jr st or cons instr.</td>
</tr>
<tr>
<td>397</td>
<td>Study Abroad: (Subtitled). 1-12 cr.</td>
<td>U.</td>
<td>Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/change in topic. Prereq: jr st; acceptance in Study Abroad Prog.</td>
</tr>
<tr>
<td>446</td>
<td>The Portuguese-Speaking World: Sociolinguistic Perspectives. 3 cr. U/G.</td>
<td></td>
<td>Examination of the history and development of Portuguese language and sociolinguistics in Portugal, Brazil, and former Portuguese colonies in Africa and Asia. To count toward Portugs minor, coursework must be done in Portugs. Prereq: jr st.</td>
</tr>
<tr>
<td>457</td>
<td>Seminar in Luso-Brazilian Literature. 3 cr.</td>
<td>U/G.</td>
<td>Survey introduction to Brazilian, Portuguese, and/or African literature. Taught in Portuguese with readings in Portuguese. To count towards the Portuguese minor, course work must be written in Portuguese. Graduate students may complete work in Spanish or Portuguese. Prereq: jr st or cons. instr.</td>
</tr>
<tr>
<td>489</td>
<td>Internship in Portuguese, Upper Division. 1-3 cr.</td>
<td>U.</td>
<td>Application of advanced principles of Portuguese in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 3 cr max. Prereq: jr st; 300-level or above course in Portugs; 2.25 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>497</td>
<td>Study Abroad: (Subtitled). 1-12 cr.</td>
<td>U.</td>
<td>Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.</td>
</tr>
<tr>
<td>499</td>
<td>Ad Hoc: (Subtitled). 1-6 cr.</td>
<td>U.</td>
<td>Course created expressly for offering in a specified enrollment period. Requires</td>
</tr>
</tbody>
</table>
only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/chg in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Independent Reading. 1-3 cr. U. Advanced independent work under supervision of a Portugs faculty or instructional academic staff member. Students must submit study proposal. For more information, consult dept chair.|Retakable. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
412 Psychopathology. 3 cr. U. Psychology of abnormal behavior; the nature and social-biological origins of psychotic, neurotic, and other behavioral abnormalities. Systems course. Prereq: Psych 205(P).

A. General Psychology

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>101 Introduction to Psychology</td>
<td>3 cr.</td>
<td>none</td>
</tr>
<tr>
<td>193 First-Year Seminar: (Subtitled)</td>
<td>3 cr.</td>
<td>Open only to freshmen.</td>
</tr>
<tr>
<td>205 Personality</td>
<td>3 cr.</td>
<td>Principles of personality; an overview of adaptive and maladaptive behavior patterns.</td>
</tr>
<tr>
<td>210 Psychological Statistics</td>
<td>4 cr.</td>
<td>Use of statistical techniques in Psychology.</td>
</tr>
<tr>
<td>214 Introduction to Conditioning and Learning</td>
<td>3 cr.</td>
<td>Introduction to principles and procedures of conditioning and learning.</td>
</tr>
<tr>
<td>230 Social Psychology: Psychological Perspectives</td>
<td>3 cr.</td>
<td>Areas of social psychology such as aggression, attitudes, interpersonal attraction, and group processes examined from a psychological perspective.</td>
</tr>
<tr>
<td>254 Physiological Psychology</td>
<td>3 cr.</td>
<td>The physiological bases of behavior.</td>
</tr>
<tr>
<td>260 Child Psychology</td>
<td>3 cr.</td>
<td>The development of the child.</td>
</tr>
<tr>
<td>297 Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.</td>
</tr>
</tbody>
</table>

This course information produced at 01:00 on 07/30/2015.
299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

325 Research Methods in Psychology. 4 cr. U. Design and execution of psychological research. Collection, analysis, and reporting of data. Lec & Lab.|Prereq: 2.62 gpa in Psych 101(P) & 210(P); grade of C or better in English 102(P) or score at level 4 on EPT.

380 Honors Seminar: (Subtitled). 3H cr. U. Selected topics in psychology.|Foundations course. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir; Psych 101(P).

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

B. Foundations & Systems


354 (effective 09/02/2015) Introduction to Neuroscience I: From Neuron to Brain. 3 cr. U. Basic principles of cellular, molecular, and developmental neuroscience; structure/function of neurons and glia, chemical and electrical signaling, brain development, and neurological diseases.|Systems course. Bio Sci/Psych 354 & 355 may be taken in either order. Bio Sci 354 & Psych 354 are jointly offered; they count as repeats of one another. Prereq: C or better in BioSci 315(P) or Psych 254(P).

407 Personality Theory. 3 cr. U. Theories of personality. 2 hrs lec, 1 hr dis|Systems course. Prereq: Psych 205(P).


433 Neuropsychology. 3 cr. U. Introduction to the theory, research literature and assessment of the cognitive and emotional aspects of brain function. Systems course.|Prereq: Psych 254(P) or cons instr.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Level</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>454</td>
<td>Psychopharmacology and Addiction. 3 cr. U.</td>
<td>3</td>
<td>U</td>
<td>Examination of mode of action, acute and chronic effects, and the neurobiological and psychological characteristics of psychoactive drugs with an emphasis on addiction.</td>
<td>Foundations course. Prereq: Psych 254(P) or cons instr.</td>
</tr>
<tr>
<td>510</td>
<td>Advanced Psychological Statistics. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>Topics include probability and sampling theory, correlational methods, and nonparametric techniques.</td>
<td>Foundations course. Prereq: jr st &amp; Psych 210(P); or grad st.</td>
</tr>
<tr>
<td>540</td>
<td>Clinical Psychology: Science and Practice. 3 cr. U.</td>
<td>3</td>
<td>U</td>
<td>Key concepts, findings, and their applications in the field of research and practice of clinical science.</td>
<td>Foundations course. Prereq: jr st.</td>
</tr>
<tr>
<td>550</td>
<td>History of Psychology. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>The important philosophical and scientific antecedents of contemporary psychology.</td>
<td>Systems course. Prereq: jr st; 9 cr in psych.</td>
</tr>
<tr>
<td>555</td>
<td>Health Psychology. 3 cr. U.</td>
<td>3</td>
<td>U</td>
<td>Psychological contributions to physical health in areas such as changing health habits, stress and coping, pain, and chronic illness.</td>
<td>Systems course. Prereq: Psych 254(P) or cons instr.</td>
</tr>
<tr>
<td>578</td>
<td>Psychology of Race, Ethnicity, and Health. 3 cr. U.</td>
<td>3</td>
<td>U</td>
<td>Psychological theory and research on how health is related to race and ethnicity.</td>
<td>Foundations course. No cr for students w/cr in Psych 611 w/similar topic. Prereq: jr st, Psych 101(P); or grad st.</td>
</tr>
<tr>
<td>609</td>
<td>Motivation. 3 cr. U/G.</td>
<td>3</td>
<td>U/G</td>
<td>Systematic analysis of reinforcement, drive, arousal, and recent neurophysiological research related to motivation and emotion.</td>
<td>Systems course. Prereq: jr st; Psych 254(P) or cons instr.</td>
</tr>
<tr>
<td>610</td>
<td>Experimental Design. 3 cr. U/G.</td>
<td>3</td>
<td>U</td>
<td>Design and analysis of single and multi-factor experiments; tests for trends; multiple comparisons.</td>
<td>Systems course. Prereq: jr st &amp; Psych 210(P); or grad st.</td>
</tr>
<tr>
<td>611</td>
<td>Current Topics: (Subtitled). 3 cr. U/G.</td>
<td>3</td>
<td>U</td>
<td>Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.</td>
<td>Foundations course. Retakable w/chg in topic to 9 cr max. Prereq: jr st.</td>
</tr>
<tr>
<td>627</td>
<td>Cognitive Neuroscience. 3 cr. U.</td>
<td>3</td>
<td>U</td>
<td>How the brain enables the mind; broad introduction to cognitive neuroscience, w/emphasis on a converging methods approach will be emphasized.</td>
<td>Systems course. Counts as repeat of Psych 611 w/same topic. Prereq: jr st; Psych 210(P) &amp; 254(P).</td>
</tr>
<tr>
<td>680</td>
<td>Psychology of Aging. 3 cr. U/G.</td>
<td>3</td>
<td>U</td>
<td>Extension of principles of general psychology to the process of aging.</td>
<td>Systems course. Prereq: jr st; Psych 325(P) or cons instr.</td>
</tr>
</tbody>
</table>

C. Advanced Laboratory

505 Cognitive Processes. 4 cr. U/G. Human information processing, emphasizing vision and language. Topics: pattern recognition; sensory-specific memory systems, short- and long-term; modern approaches to mental imagery and operations. Lec, lab.|Prereq: jr st; Psych 325(P).


654 Advanced Physiological Psychology. 4 cr. U/G. Advanced topics in physiological psychology. Lec, lab.|Required special course fee assessed; announced in Schedule of Classes each sem. Prereq: jr st; Psych 254(P) & 325(P).


D. Research & Independent Study

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|Retakable w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

290 Undergraduate Research: Lower Division. 1-3 cr. U. Independent research under the supervision of a faculty member.|Retakable. Prereq: fr & soph st only; Psych 101(P) and sponsorship by a faculty member.

292 Psychology Field Placement-Lower Division. 3 cr. U. |Retakable. Prereq: Psych 101(P); cons instr & placement supervisor.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff.|One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

690 Undergraduate Research: Upper Division. 1-3 cr. U. Independent research under the supervision of a faculty member.|Retakable. Prereq: jr st; sponsorship by a faculty member.


697 Field or Research Placement in Psychology for Seniors. 3 cr. U. |Fulfills Capstone req. Prereq: sr st; cons instr &., if appropriate, placement supervisor.

698 Senior Thesis. 3 cr. U. Completion of thesis under the supervision of faculty.|Retakable to 6 cr max. Prereq: sr st; 3.5 gpa in all Psych course work or cons instr.

699 Independent Study. 1-3 cr. U. Advanced independent work under the supervision of a Psych faculty member. Students must submit study proposal to the prof with whom they wish to study. For additional
information, consult supervising prof.|Retakable w/chg in topic. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair & assoc dean for SAS.


192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/ change in topic. Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-4 cr. U. For further information, consult dept chair.|Prereq: soph st, gpa 2.5 or above & writ cons instr, dept chair, & asst dean for SAS.

201 Third-Semester Russian. 4 cr. U. Review of grammar; practice in speaking, reading, and translation with integrated laboratory work.|Prereq: Russian 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).


210 Russian Literacy for Native and Heritage Speakers. 4 cr. U. Fundamentals of written Russian for native and heritage speakers: alphabet, orthography, grammar, style. Designed to develop language skills at the level of fourth-semester Russian.|Open only to native and heritage speakers of Russian with little or no formal schooling in the former Soviet Union. Generates L&S credits for demonstrated equivalent preparation (12 retro cr). Prereq: none.

213 Grammar for Students of Foreign Languages. 3 cr. U. An introduction to the grammatical concepts useful in studying foreign languages.|Jointly offered with, and may be used to repeat, Classic 213, English 213, French 213, German 213, Italian 213, Linguis 213, Polish 213, & Spanish 213. Prereq: none.

235 Survey of Nineteenth-Century Russian Literature in Translation. 3 cr. U. Selected major authors representing
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Level</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>245</td>
<td>Russian Life and Culture</td>
<td>3 cr.</td>
<td>U</td>
<td>Historical survey of Russian cultural patterns: themes, influences, religion, literature, architecture, music, daily life. No knowledge of Russian req'd.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>277</td>
<td>Russian Discussion Section</td>
<td>1 or 2 cr.</td>
<td>U</td>
<td>Discussion in Russian, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max.</td>
<td>Prereq: Russian 202(P) or cons instr.</td>
</tr>
<tr>
<td>245</td>
<td>Russian Life and Culture</td>
<td>3 cr.</td>
<td>U</td>
<td>Historical survey of Russian cultural patterns: themes, influences, religion, literature, architecture, music, daily life. No knowledge of Russian req'd.</td>
<td>Prereq: none.</td>
</tr>
<tr>
<td>287</td>
<td>Internship in Russian, Lower Division</td>
<td>1-6 cr.</td>
<td>U</td>
<td>Application of basic principles of Russian in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.</td>
<td>Prereq: intro course in Russian; 2.25 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>310</td>
<td>Advanced Russian Reading and Conversation</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Development of advanced reading, speaking, and writing skills. Readings and films focus on Russian life and culture. Topic varies each semester.</td>
<td>Retakable w/chg in topic to 9 cr max. Prereq: jr st; Russian 202(P), 210(P), or cons instr. Generates L&amp;S credit for demonstrated equivalent preparation (16 retro crs).</td>
</tr>
<tr>
<td>311</td>
<td>Contemporary Russian Language</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Development of practical communication skills. Focus varies each semester.</td>
<td>Retakable w/chg in topic to 9 cr max. Prereq: jr st; Russian 202(P), 210(P), or cons instr. Generates L&amp;S cr for demonstrated equiv preparation (16 retro crs).</td>
</tr>
<tr>
<td>350</td>
<td>Dostoyevsky and Tolstoy in Translation: Major Works</td>
<td>3 cr.</td>
<td>U</td>
<td>Close readings of the masterworks of Tolstoy and Dostoevsky in historical context; consideration of their impact on Russian and Western art and social thought.</td>
<td>No knowledge of Russian req'd. Prereq: jr st.</td>
</tr>
<tr>
<td>360</td>
<td>Bulgakov, Pasternak and Solzhenitsyn in Translation</td>
<td>3 cr.</td>
<td>U</td>
<td>Reading and discussion of the major works of three outstanding Russian writers of the 20th century, two of them recent controversial Nobel prize winners.</td>
<td>Prereq: 5 crs in lit-in-trans and/or 200-level English lit courses.</td>
</tr>
<tr>
<td>361</td>
<td>Russian and Slavic Folklore</td>
<td>3 cr.</td>
<td>U</td>
<td>Folk beliefs of the past thousand years, including medieval folk epics, fairy tales, and legends; impact of ancient pagan beliefs on contemporary Slavic cultures.</td>
<td>Counts as repeat of Russian 391 w/same topic. ReligSt 361 &amp; Russian 361 are jointly offered; they count as repeats of one another. Prereq: jr st.</td>
</tr>
<tr>
<td>391</td>
<td>Russian Literature and Culture in Translation: (Subtitled)</td>
<td>3 cr.</td>
<td>U</td>
<td>Topics on Russian literature and culture in their historical and cultural contexts. Influences in modern Russian culture.</td>
<td>To count toward the Russian major or minor, coursework must be done in Russian. Retakable w/chg in topic to 9 cr max. Prereq: jr st.</td>
</tr>
<tr>
<td>397</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>U</td>
<td>Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic.</td>
<td>Prereq: jr st; acceptance in Study Abroad Prog.</td>
</tr>
</tbody>
</table>
| 419         | Introduction to Translation: Russian to English                             | 3 cr.   | U     | Translation process as combination of linguistic,
cultural, ethical, and logistic challenges; translation strategies for business, media, academic, legal, commercial, medical, technical, and popular culture documents.|Prereq: jr st; grade of B or better in 300-level or above Russian language course.

429 Seminar in Advanced Russian Translation: Russian to English. 3 cr. U. Translation of ideas and conceptual knowledge in subject areas including economics, law, society, culture, and history.|Prereq: jr st; grade of B or better in Russian 419(P).

489 Internship in Russian, Upper Division. 1-6 cr. U. Application of advanced principles of Russian in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.|Prereq: jr st; 300-level or above course in Russian; 2.25 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic.|Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic.|Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/ change in topic.|Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/ change in topic.|Prereq: jr st; acceptance in Study Abroad Prog.

699 Supervised Individual Reading. 1-6 cr. U. Advanced independent work under the supervision of a Slavic Lang faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Slavic Lang prog coord.|Retakable w/chg in topic.|Prereq: jr st; 2.5 GPA; writ cons instr, dept chair, & assoc dean for SAS.
SRB-CRO Serbo-Croatian
100 **Introduction to Social Work.** 3 cr. U. A survey course focused on the development of human service institutions and occupations. Prereq: none.


112 **Field Observation.** 1 cr. U. Introduction to the services of a social welfare setting through placement in an approved social service, health, law enforcement, or recreational setting. Minimum of 3 hours per week. Prereq: soph st.

206 **Introduction to Social Welfare Policy.** 3 cr. U. An analysis of the relationships between poverty, welfare programs, and the society which creates and sustains them; the origins, structures, and goals of welfare programs. Prereq: soph st.

250 **Human Behavior and the Social Environment.** 3 cr. U. A survey course in normative development from conception through aging. Focus on the interaction between biological, psychological, social, and cultural forces. Prereq: soph st; Soc Wrk 100(P) or Psych 101(C).


297 **Study Abroad: (Subtitled).** 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. May be retaken with change in topic. Prereq: acceptance for Study Abroad Prog.

300 (effective 09/02/2015) **Aged to Perfection: Introduction to the Study of Aging.** 3 cr. U. Interdisciplinary survey on aging. Prereq: Satisfaction of OWC-A GER

310 **Social Work Methods I.** 3 cr. U. Introduction to generic Social Work practice methods. Course also provides experiential exercises designed to provide students with basic interviewing skills. Prereq: jr st; Soc Wrk 100(P), 250(P) & satisfy English competency.
380 Honors Seminar in Social Work: (Subtitled). 3H cr. U. A seminar in an interdisciplinary topic or on the broader implications of a faculty member's research. Retakeable w/chg in topic to 9H cr max. Prereq: soph st; Honors 200(P); cons Honors College Dir.

410 Social Work Methods II. 3 cr. U. Introduction to social work methods as applied to small groups. Lab provides experiential exercises in group interactions, needs, and leadership roles. Prereq: jr st; admis to Soc Wrk major; Soc Wrk 310(P); 662(P) or 421(C).

421 Field Education & Integrated Field Seminar I. 5 cr. U. (First of two semester required sequence). Placement in social welfare setting to develop social work skills and awareness of professional behavior. 16 hours per week for a total of 256. Prereq: jr st; declared Soc Wrk major; Soc Wrk 310(P); 662(C); 410(C).

422 Field Education & Integrated Seminar II. 5 cr. U. (Second of a two semester required sequence). Continuation of Soc Wrk 421. Prereq: sr st; Soc Wrk 410(P), 421(P), 662(P); 427(C).

423 Field Education III. 5 cr. U. (Elective field course). Continuation of Soc Wrk 421 & 422. Prereq: sr st; Soc Wrk 422(P), 427(P); cons Field Office.

427 Social Work Methods III. 3 cr. U. Introduction to social work methods as applied to community problems. Lab provides experiential exercises in community organization and other techniques of social change. Prereq: sr st; Soc Wrk 410(P), 662(P); 422(C).

497 Study Abroad: (Subtitled). 1-6 cr. U/G. Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakeable with change in topic to max of 9 cr. Prereq: jr st; acceptance for Study Abroad Prog.

562 Child and Family Services. 2 cr. U/G. Introduction to child and family welfare services, including methods for assessing needs, existing treatment techniques, and institutional support systems. Prereq: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.

564 Social Services for the Aging. 2 cr. U/G. Individual and societal implications of the aging process, with an emphasis upon current resources and programs for the elderly. Prereq: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.


581 Youth Work Practice. 3 cr. U/G. Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs. Ed Pol/ExcEduc/Soc Wrk 581 are jointly offered & count as repeats of each other. Prereq: jr st; Ed Pol/ExcEduc/Soc Wrk 580(P); or grad st or cons instr.

591 Special Topics: Social Welfare and Social Work: (Subtitled). 1-3 cr. U. Selected topics in social welfare and social work. Specific credits and additional prerequisites announced in Schedule of Classes whenever course is offered. Retakeable with change in topic to max of 6 cr. Prereq: jr st; satisfy English competency; one prior course in Soc Wrk recom.

592 Independent Research. 1-3 cr. U. Participation in an independent research project under faculty supervision. May be retaken to max of 6 cr. Prereq: jr st; satisfy English competency; GER math requirement; 2.5 gpa; Soc Wrk 662(P); writ cons instr & dir Soc Wrk prog.

599 Independent Reading. 1-3 cr. U. Intensive readings in fields related to student's preparation and training, under the supervision of a faculty member. Retakeable to 6 cr max. Prereq: sr st; satisfy English competency; 2.5 gpa; writ cons
**604 Social Systems and Social Work Practice. 3 cr. U/G.** Analysis of organizations, community and social institutions and the impact they have on human behavior and how they provide the social context of social work practice.|Prereq: jr st; satisfy English competency, admis to Soc Wrk major, Soc Wrk 310(P); or grad st.

**630 Families and Poverty. 2-3 cr. U/G.** Description of families in poverty and analysis of historical and contemporary national and state policies aimed at reducing poverty.|Prereq: jr st; one prior course in Soc Wrk recom.

**650 Social Welfare and the Law. 2 cr. U/G.** Collaborative principles of social work and the legal profession. Selected concepts and principles of legal and social provision for protection of family, children and adults.|Prereq: jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.

**662 Methods of Social Welfare Research. 3 cr. U/G.** Analyze methods of social welfare research and problems in project design and programming. Characteristics of investigations directed to planning, administrative, practice, and scientific objectives.|Prereq: jr st, Soc Wrk major, completion of GER Math req, Soc Wrk 100(P) & 206(P), 421(C); or grad st.

**665 Cultural Diversity and Social Work. 3 cr. U/G.** Emphasis on culture, race and ethnicity, theories of prejudice, and racial minority groups, and the politics of human services in multicultural society.|Prereq: jr st, admis to Soc Wrk major, satisfy English competency, Soc Wrk 100(P), 206(P), 250(350)(P); or grad st.

**680 Death and Dying. 3 cr. U/G.** Focus on multiple perspectives on death, dying, and bereavement; roles and skills for social workers and other helpers about end-of-life issues.|Counts as repeat of Soc Wrk 591 & 791 with same topic. Prereq: jr st; or grad st.

**685 Social Gerontology. 3 cr. U/G.** Exploration of individual aging experiences and interaction with social structures and social systems.|Counts as repeat of Soc Wrk 591 & 791 with the same topic. Prereq: jr st and one prior course in Soc Wrk recom; or grad st.

**691 Practice Methods in Social Work: (Subtitled). 1-3 cr. U/G.** Topics focused on Social Work practice methods. Specific topics and credits to be announced in Schedule of Classes.|May be retaken with change in topic to max of 6 cr. Prereq: jr st.

*This course information produced at 01:00 on 07/30/2015.*
101 Introduction to Sociology. 3 cr. U. Sociology as a special field of social science. The relationship of the work of the sociologist to contemporary society; an examination of the sociological perspective.|Prereq: none.

102 Social Problems in American Society. 3 cr. U. The field of social problems; theories for explaining social and personal disorganization and deviation; selected contemporary problems analyzed and related to their social context.|Prereq: none.

103 World Society. 3 cr. U. Demographic and development trends related to political, economic, and eco-systems. Policy options and strategies regarding population growth, economic development, and selected institutional issues.|Prereq: none.

104 Introduction to Social Psychology. 3 cr. U. An introduction to sociological social psychology, emphasizing such topics as the nature of self, identity, socialization, various aspects of social interaction, and dynamics of group behavior.|Prereq: none.


193 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. For further information, consult dept chair.|Retakable w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

200 Contemporary American Society. 3 cr. U. The patterns of social life in the United States; cultural orientations, social structures, and dynamics of social change.|Prereq: soph st or a Sociol 100-level course.

207 Work and Society. 3 cr. U. The sociology of work; changes in the structure of work. Theory and research on work settings: occupations, professions, housework, work subterranean. The future of work.|Prereq: soph st or a Sociol 100-
224 American Minority Groups. 3 cr. U. Nature of minority-dominant group relations. Stability and change in status in American society of Blacks, Native Americans, Spanish-speaking peoples, and other minority groups.|Prereq: soph st or a Sociol 100-level course.

233 Social Inequality in the United States. 3 cr. U. A survey of race, class and gender inequalities. Introduction to competing stratification theories.|Prereq: soph st or a Sociol 100-level course.

235 Social Change in the Global Economy. 3 cr. U. Global nature of contemporary economic and social change; local dimensions of globalization, economic integration, dislocation, transnationalization, popular resistance, and backlash.|Prereq: soph st or any Sociol 100-level course.

241 Criminology. 3 cr. U. Analysis of competing perspectives on crime, with reference to the behavior of those who define, engage in, or become the victim of criminal behavior.|Prereq: soph st or a Sociol 100-level course.

246 Juvenile Delinquency. 3 cr. U. Study of personal and social determinants of juvenile delinquency and agencies for its control, treatment, and prevention.|Prereq: soph st or a Sociol 100-level course.

248 Sociology of Education. 3 cr. U. Social structure of the contemporary schooling system in the United States. Topics include social class membership and education outcomes; school desegregation; high school attrition.|Prereq: soph st or a Sociol 100-level course.

250 Sex and Gender. 3 cr. U. The study of sexual inequality; changing work and family roles in industrialized societies; the social construction of gender; sociological understandings of sexual diversity.|Prereq: soph st or a Sociol 100-level course.

250 (effective 09/02/2015) Sex and Gender. 3 cr. U. The study of sexual inequality; changing work and family roles in industrialized societies; the social construction of gender; sociological understandings of sexual diversity.|Prereq: soph st or a Sociol 100-level course.

255 (105) Sociology of Sexuality. 3 cr. U. The social construction of sexuality, the social history of sexual arrangements, and contemporary sexual theory and practice.|Prereq: soph st or a Sociol 100-level course.

255 (105) (effective 09/02/2015) Sociology of Sexuality. 3 cr. U. The social construction of sexuality, the social history of sexual arrangements, and contemporary sexual theory and practice.|Prereq: soph st or a Sociol 100-level course.

260 The Family and Intimate Relationships. 3 cr. U. Sources of diversity and change in patterns of intimate relationship, marriage, and family life.|Prereq: soph st or a Sociol 100-level course.

260 (effective 09/02/2015) The Family and Intimate Relationships. 3 cr. U. Sources of diversity and change in patterns of intimate relationship, marriage, and family life.|Prereq: soph st or a Sociol 100-level course.

261 Introduction to Statistical Thinking in Sociology. 3 cr. U. Introduction to basic statistical concepts and procedures and their selected application to sociological data. Covers both descriptive and inferential statistics.|Prereq: soph st or Sociol 101(P); satisfaction of GER Quantitative Literacy Part A req.

282 Sociology of Aging. 3 cr. U. Introduction to social gerontology; examination of the social dynamics and institutional contexts of aging in modern society.|Prereq: soph st or a Sociol 100-level course.

289 Internship in Sociology, Lower Division. 1-6 cr. U. Application of basic principles of sociology in a business, organizational, educational, political or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Sociol; 2.25 gpa; cons supervising faculty member.
International Migration: (Subtitled). 3 cr. U. Examines institutional, demographic, geo-political, and social psychological sources of human migration. Considers theories of and trends in migration with special focus on salient, current events. Not retakable for cr. Prereq: soph st or a Sociol 100-level course.

Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

Political Sociology. 3 cr. U. Examination of structural and cultural factors as related to the nature of political systems; consideration of the organization and roles of political and para-political groups. Prereq: jr st & any Sociol 100-level course.

Sociology of Sport. 3 cr. U. Social structure of sports in historic and contemporary contexts, with primary emphasis given to sports in the United States. Prereq: jr st; any Sociol 100 or 200 level course.

Industrial Sociology. 3 cr. U. Industrial technological factors in community life; role of industrial workers, leaders, and organizations in the community; impact of industrialization on other institutions. Prereq: jr st; a Sociol 100-level course.

Social Change in American Indian Societies. 3 cr. U. American Indian societal change studied from a combination of theoretical perspectives: examination of the variation in American Indian responses to Western political and economic impacts. AIS 320 & Sociol 320 are jointly offered; they count as repeats of one another. Prereq: jr st; any Sociol 100-level course or Sociol 224(P).

Contemporary Issues of the American Indian. 3 cr. U. Development of the institutional structure of American Indian affairs; current economic and social problems, contemporary manifestations of American Indian spirit, e.g. activism and cultural experiences. AIS 321 & Sociol 321 are jointly offered; they count as repeats of one another. Prereq: jr st; any Sociol 100-level course or Sociol 224(P).

Perspectives on Latino Communities. 3 cr. U. Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives. Emphasis on Chicanos, Cubans, and Puerto Ricans. Latino 323 & Sociol 323 are jointly offered; they count as repeats of one another. Prereq: jr st & any Sociol 100-level course or cons instr.

Comparative Race Relations. 3 cr. U. Analysis of racial/ethnic relations in historical and cross-cultural perspective. Origin, persistence, adaptation, and change in patterns of race relations in various societies. Prereq: jr st & Sociol 101(P) or 104(P).

Social Change. 3 cr. U. Study of change in society; integration and various theories of social change; examination of contemporary instances of social change. Prereq: jr st & any Sociol 100-level course.

The Social Organization of Technology: A Comparative Perspective. 3 cr. U. Explores technological innovation, the diffusion of technology into practice, the relationship of technology to science, work and the control of work. Prereq: jr st; a 100-level Sociol course.

Economy and Society. 3 cr. U. The sociological perspective applied to economic phenomena, including production, distribution, consumption, exchanges of goods, a country's economic development, and global market. Prereq: jr st; a Sociol 100-level course.

Sociology of Health Care. 3 cr. U. Cultural, social, and social-psychological factors in disease processes;
distribution of disease; social definitions of illness; organization of health professions and health facilities.|Prereq: jr st & Sociol 101(P) or 104(P).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisite(s)</th>
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</thead>
<tbody>
<tr>
<td>341</td>
<td>Sociology of Deviant Behavior</td>
<td>3 cr.</td>
<td>Analysis of the ways in which deviant behavior is socially constructed, individuals are labeled and stigmatized as deviants, and mechanisms of social control are activated or challenged.</td>
<td>Prereq: jr st &amp; any Sociol 100-level course.</td>
</tr>
<tr>
<td>342</td>
<td>Sociology of Law</td>
<td>3 cr.</td>
<td>Examination of law as a social institution, the functions of law, evolution of legal systems, law and other social institutions, the legal profession.</td>
<td>Prereq: jr st &amp; Sociol 101(P) or 104(P).</td>
</tr>
<tr>
<td>343</td>
<td>Collective Behavior</td>
<td>3 cr.</td>
<td>Dynamic aspects of social and institutional change. The breakdown and transformation of the social system through cultural drift, collectivities, and social movements. Recruitment, ideology, and leadership.</td>
<td>Prereq: jr st &amp; Sociol 101(P) or 104(P).</td>
</tr>
<tr>
<td>361</td>
<td>Research Methods in Sociology</td>
<td>3 cr.</td>
<td>Scientific methods in the analysis of society, procedures in problem definition, hypotheses/construction, and collection, and evaluation of data.</td>
<td>Prereq: jr st; 9 cr Sociol; Sociol 261(P) or approved stats course.</td>
</tr>
<tr>
<td>375</td>
<td>History of Sociological Theory</td>
<td>3 cr.</td>
<td>Critical survey of ideas about society centered on thinkers up to the twentieth century.</td>
<td>Prereq: jr st; 9 cr Sociol.</td>
</tr>
<tr>
<td>376</td>
<td>Modern Sociological Theory</td>
<td>3 cr.</td>
<td>Major theoretical paradigms including functionalism, conflict and dialectical models, exchange theory, symbolic interactionism, and social phenomenology.</td>
<td>Prereq: Sociol 375(P).</td>
</tr>
<tr>
<td>377</td>
<td>Urbanism and Urbanization</td>
<td>3 cr.</td>
<td>Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas.</td>
<td>Sociol 377 &amp; Urb Std 377 are jointly-offered; they count as repeats of one another. Prereq: jr st &amp; a Sociol 100-level course; or Urb Std 250(P).</td>
</tr>
<tr>
<td>380</td>
<td>Honors Seminar: (Subtitled)</td>
<td>3H cr.</td>
<td>Selected topics in sociology</td>
<td>Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.</td>
</tr>
<tr>
<td>399</td>
<td>Independent Study-Upper Division</td>
<td>1-3 cr.</td>
<td>Independent work in specific areas of sociology under supervision.</td>
<td>Retakable w/chg in topic to 6 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, dept chair, &amp; asst dean for SAS.</td>
</tr>
<tr>
<td>404</td>
<td>Sociology and Social Policy</td>
<td>3 cr.</td>
<td>Examination of the uses of sociological theory and research in the formulation, implementation, and evaluation of social policy.</td>
<td>Prereq: jr st; any Sociol 100-level course.</td>
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<tr>
<td>423</td>
<td>Latino Immigration and Incorporation: (Subtitled)</td>
<td>3 cr.</td>
<td>Latino institutional, geo-political, demographic, comparative, and social network theoretical perspectives on migration to and incorporation into the United States.</td>
<td>Retakable w/chg in topic to 6 cr max. Latino 423 &amp; Sociol 423 are jointly offered; w/same topic, they count as repeats of one another. Prereq: jr st; 3 cr in Sociol at 200-level or above or cons instr; addl prereqs may be assigned for specific topics.</td>
</tr>
<tr>
<td>440 (effective 09/02/2015)</td>
<td>Sociology of the Family</td>
<td>3 cr.</td>
<td>Family patterns and ideologies in relation to broader social structure and culture, sources of variety and change in household, family, and kinship organization.</td>
<td>Prereq: jr st; 6 cr in Sociol at 200-level or above.</td>
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<td>Course Code</td>
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<td>Prerequisites</td>
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<td>440</td>
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<td>Family patterns and ideologies in relation to broader social structure and culture, sources of variety and change in household, family, and kinship organization.</td>
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<td>Prereq: jr st; 6 cr in Sociol at 200-level or above</td>
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<tr>
<td>442</td>
<td>The Work-Family Intersection</td>
<td>3 cr</td>
<td>U/G</td>
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<td></td>
<td>Social forces shaping work and family patterns and ideologies; implications of social change for employers, workers, and families; survey of work-family policies.</td>
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<td>Prereq: jr st; 6 cr 200-level or above Sociol</td>
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<tr>
<td>443</td>
<td>Organizations, Occupations, and Professions</td>
<td>3 cr</td>
<td>U/G</td>
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<td></td>
<td>Development of occupations and professions in industrial societies. Study of professional concepts, ethical codes, work norms, specialization, recruitment, education, and work roles in an organizational context.</td>
<td></td>
<td>Prereq: jr st &amp; Sociol 101(P) or 104(P); or grad st</td>
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<tr>
<td>444</td>
<td>Sociology of the Body</td>
<td>3 cr</td>
<td>U/G</td>
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<td></td>
<td>How the body is shaped by social forces. Relationship between the body, identity, and culture, focusing on gender, race/ethnicity, and disability.</td>
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<td>Prereq: jr st &amp; any Sociol course; or grad st</td>
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<td>Prereq: jr st &amp; any Sociol course; or grad st</td>
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<tr>
<td>448</td>
<td>Sociology of Children and Adolescents</td>
<td>3 cr</td>
<td>U/G</td>
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<td></td>
<td>Theoretical perspectives and research methods addressing substantive issues in children's and adolescents' lives, including peer cultures, schooling, families, gender, race, class, health, and work.</td>
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<td>Prereq: jr st &amp; any Sociol course</td>
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<td>450</td>
<td>Environmental Sociology</td>
<td>3 cr</td>
<td>U</td>
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<td></td>
<td>Sociological analysis of the interaction between humans, their artifacts, and the natural environment.</td>
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<td>Prereq: jr st &amp; Sociol 101(P)</td>
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<tr>
<td>452</td>
<td>Social Networks in Global Commerce</td>
<td>3 cr</td>
<td>U</td>
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<td></td>
<td>Social networks that connect business people and companies; how networks mediate activities in a global economy; how networks are shaped by national culture and institutions.</td>
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<td>Prereq: jr st &amp; a Sociol 100-level course; or grad st</td>
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<tr>
<td>461</td>
<td>Multivariate Data Analysis for Social Research</td>
<td>3 cr</td>
<td>U/G</td>
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<td></td>
<td>Advanced practical training in multivariate regression using real, large datasets (surveys, census data, etc.); how multiple independent variables influence a dependent variable.</td>
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<td>Prereq: jr st, Sociol 261(P) or approved stats course; or grad st</td>
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<td>472</td>
<td>Population and Society</td>
<td>3 cr</td>
<td>U/G</td>
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<td>476</td>
<td>Sociology of International Public Health</td>
<td>3 cr</td>
<td>U/G</td>
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<td></td>
<td>Social, economic, and political factors that influence inequality in health at the global level; interacting influence of micro and macro forces on public health.</td>
<td></td>
<td>Prereq: jr st; 9 cr in Sociol at 200-level or above; or grad st</td>
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<td>489</td>
<td>Internship in Sociology, Upper Division</td>
<td>3 cr</td>
<td>U</td>
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<td></td>
<td>Application of advanced principles of sociology in a business, organization, educational, political or other appropriate setting; includes course work and 120 hrs field work.</td>
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<td>Prereq: jr st; declared Sociol major or minor; Sociol 361(P); 2.75 gpa; cons supervising faculty member</td>
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<td>493</td>
<td>Capstone Seminar in Sociology</td>
<td>3 cr</td>
<td>U</td>
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<td></td>
<td>Summary and integration of ideas from diverse Sociology courses. For Sociol majors in their last year of study.</td>
<td></td>
<td>Prereq: sr st; declared Sociol major; grade of C or better in English 102(P) or score at level 4 on EPT</td>
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<tr>
<td>495</td>
<td>Seminar in Sociology: (Subtitled)</td>
<td>3 cr</td>
<td>U/G</td>
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<td></td>
<td>Intensive study in a selected area of Sociology. Designed to encourage discussion, debate, and critical thinking.</td>
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<td>Retakable w/chg in topic to 6 cr max. Prereq: jr st; 6 cr 200-level or above</td>
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</table>
497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.


697 Organizational Admin Capstone. 3 cr. U. Internship, case analysis, or independent study that synthesizes course work in graded paper. Commun 697, Econ 697, & Sociol 697 are jointly offered; they count as repeats of one another. Prereq: sr st; declared org adm major; satisfaction of GER English Composition competency req; cons instr.
103 First-Semester Spanish. 4 cr. U. Language lab required. Introductory course for students who have had little or no previous work in Spanish. Open only to students with 2 yrs H.S. Spanish or less or a score of 1 on Spanish placement exam. Prereq: none.

104 Second-Semester Spanish. 4 cr. U. Continuation of Spanish 103. Language lab required. Generates L&S credits for demonstrated equivalent preparation (4 retro crs). Prereq: grade of C- or better in Spanish 103(P) or level 2 score on Spanish placement exam.

123 Regional Languages of Spain, First Semester: (Subtitled). 3-6 cr. U. Introductory course for students who have had no previous work in one of the official, regional languages of Spain. Retakable w/chg of language. Prereq: none.

124 Regional Languages of Spain, Second Semester: (Subtitled). 3-6 cr. U. Second-semester introductory course for students who have had no previous work in one of the official, regional languages of Spain. Retakable w/chg of language. Prereq: Spanish 123(P) in same language.

192 First-Year Seminar: (Subtitled). 3 cr. U. The specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194). Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: acceptance in Study Abroad Prog.

203 Third-Semester Spanish. 3 cr. U. Continuation of Spanish 104. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature. Generates L&S credits for demonstrated equivalent preparation (8 retro crs). Prereq: grade of C- or better in Spanish 104(P) or level 3 score on Spanish placement exam.

204 Fourth-Semester Spanish. 3 cr. U. Continuation of Spanish 203. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature. Generates L&S credits for demonstrated equivalent preparation (11 retro crs). Prereq: grade of C- or better in Spanish 203(P) or level 4 score on Spanish placement exam.

225 Understanding the Hispanic World: (Subtitled). 3 cr. U. Different manifestations of Hispanic culture across continents and centuries studied from many angles. In English. Retakable w/chg in topic to 9 cr max. Prereq: none.
277 Spanish Discussion Section. 1 or 2 cr. U. Discussion in Spanish, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max. Prereq: Spanish 204(P) or cons instr.

277 (effective 09/02/2015) Spanish Discussion Section. 1 or 2 cr. U. Discussion in Spanish, designed to broaden perspectives and improve language skills. Offered in conjunction w/courses in other disciplines or in Spanish. Retakable to 6 cr max. Prereq: none.

289 Internship in Spanish, Lower Division. 1-3 cr. U. Application of basic principles of Spanish in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 3 cr max. Prereq: intro course in Spanish; 2.25 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 40 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: none.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before coursework level, content and cr are determined and/or in specially prepared program coursework. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

308 Advanced Writing and Reading. 3 cr. U. Development of proficiency in different writing styles; emphasis on the most difficult aspects of Spanish through reading and other exercises. Counts as repeat of Spanish 305 and 316. Generates L&S credits for demonstrated equivalent preparation (14 retro credits). Prereq: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.

315 Spanish Immersion Experience. 1 cr. U. Concentrated practice in spoken Spanish with a native speaker in a small-group setting, with a focus on Hispanic culture. Offered in three-day modules. Retakable to 3 cr max. Prereq: Spanish 308(P); Spanish 318 (P) or 319 (P); or cons instr.

318 Advanced Speaking and Listening. 3 cr. U. Development of oral proficiency in relation to Hispanic culture. For non-heritage Spanish speakers. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro cr). Prereq: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.

319 Advanced Speaking and Listening for Heritage Speakers. 3 cr. U. Development of full proficiency in reading, writing, and speaking skills in Spanish for students with native/near-native command of these skills. Open only to heritage Spanish speakers. Others with near-native proficiency admitted at instr discretion. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro credits). Prereq: C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.

332 Business and Legal Spanish I. 3 cr. U. Business and legal language and practice in Spanish-speaking countries. Prereq: Spanish 308(P); Spanish 318(C) or 319(C).

333 Advanced Spanish Grammar. 3 cr. U. Designed to solidify written expression skills and provide a clear understanding of Spanish grammar rules at an advanced level. Prereq: Spanish 308(P); Spanish 318(P) or 319(P).

338 Spanish for Health Professionals I. 3 cr. U. Acquisition of intermediate conversational and written skills in medical terminology in Spanish through a communicative approach. For health care students. Prereq: Spanish 308(P); & grade C- or better in Spanish 318(P) or 319(P) or equiv.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Type</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>341</td>
<td>Introduction to Hispanic Linguistics</td>
<td>3 cr.</td>
<td>U.</td>
<td>Spanish linguistics, including phonetics, phonology, syntax, morphology, semantics, and sociolinguistics. Generates L&amp;S credits for demonstrated equivalent preparation (14 retro cr).</td>
<td>Spanish 308(P); Spanish 318(C) or 319(C).</td>
</tr>
<tr>
<td>348</td>
<td>Introduction to Translation: English to Spanish</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Basic skills necessary for professional translation. Translation of texts from English into Spanish. Summarizing texts; sight translation.</td>
<td>Spanish 308(P); Spanish 318(C) or 319(C); grade of C or better in English 102(R) or score at level 4 on EPT recom.</td>
</tr>
<tr>
<td>342</td>
<td>Business and Legal Spanish II</td>
<td>3 cr.</td>
<td>U.</td>
<td>Continuation of Spanish 332. Advanced business terminology and concepts; instruction in the legal terminology of Hispanic countries; preparation of documents.</td>
<td>Spanish 332(P) or cons instr.</td>
</tr>
<tr>
<td>343</td>
<td>Spanish Phonetics and Phonology</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Theory of Spanish sounds; phonetic transcription; practice in pronunciation. Language lab may be required.</td>
<td>Spanish 341(P).</td>
</tr>
<tr>
<td>344</td>
<td>Spanish Syntax and Morphology</td>
<td>3 cr.</td>
<td>U/G</td>
<td>Comprehensive review of Spanish syntax and morphology; the meaning of words, sentences, and discourse.</td>
<td>Spanish 341(P).</td>
</tr>
</tbody>
</table>
461 (365) **Topics in Hispanic Culture**: (Subtitled). 3 cr. U/G. The culture of a group of Hispanic people from a particular social and/or historical perspective, with a focus on one or more manifestations of that culture. Retakable w/chg in topic to 9 cr max. Prereq: jr st & 6 crs of 400-level Spanish.

470 **Survey of Hispanic Literature and Civilization**. 3 cr. U. Literature in Spain and Spanish America from the Middle Ages to 1880. Prereq: jr st; Spanish 350(P).


474 **Survey of Spanish Literature and Civilization**. 3 cr. U. Literature in Spain from Realism to the present. Prereq: jr st; Spanish 350(P).

489 **Internship in Spanish, Upper Division**. 1-3 cr. U. Application of advanced principles of Spanish in a business, organizational, educational, political, or other appropriate non-salaried setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 3 cr max. Prereq: jr st; 6 cr at 400-level or above in Spanish; 3.50 gpa in Spanish major; writ cons supervising faculty member and dept chair.

497 **Study Abroad**: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, contact, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 **Ad Hoc**: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

506 **Seminar in Spanish Literature**: (Subtitled). 3 cr. U/G. One or more areas of Spanish peninsular literature across periods, genres, or regions. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 474(P).

507 **Seminar in Spanish-American Literature**: (Subtitled). 3 cr. U/G. One or more areas of Spanish-American literature across periods, genres, or regions. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 472(P).

508 **Seminar in Hispanic Literature**: (Subtitled). 3 cr. U/G. A literary subject with manifestations in more than one Hispanic literature, including Latino literature, with focus on the differences between/among them. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P), 472(P), & 474(P).

541 (441) **History of the Spanish Language**. 3 cr. U/G. External and internal history of the evolution of the Spanish language. Prereq: jr st; Spanish 341(P); one 400-level Hispanic linguistics course or cons instr.

545 (445) **Seminar in Hispanic Linguistics**: (Subtitled). 3 cr. U/G. One or more branches of linguistics, such as dialectology, pragmatics, sociolinguistics, historical linguistics, etc., in relation to the Hispanic languages. Retakable w/chg in topic to 9 cr max. Prereq: Spanish 341(P); one 400-level Hispanic linguistics course or cons instr.

570 (405) **Seminar in Spanish Golden Age Literature**: (Subtitled). 3 cr. U/G. Topics on the poetry and/or the narrative and didactic prose of the late sixteenth and the seventeenth centuries. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 474(P).


572 (409) **Seminar on Cervantes**: (Subtitled). 3 cr. U/G. 'Don Quixote' and/or other works by Cervantes. Retakable w/chg in topic to 9 cr max. Prereq: jr st; Spanish 470(P) & 474(P).


595 Spanish for Reading Knowledge. 3 cr. U. Reading proficiency for students who are not Spanish majors but who have an interest in learning and/or solidifying their reading skills in the language. Counts as repeat of Spanish 499 with same topic. Prereq: jr st.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Independent Study. 1-3 cr. U. Advanced independent work under supervision of Spanish faculty or instructional academic staff member. Instructor must approve student's study proposal. For more information, consult dept chair. Retakable w/chg in topic to 3 cr max. Prereq: jr st; 2.5 overall gpa; 3.5 Spanish gpa; writ cons instr, dept chair, & assoc dean for SAS.
100 Sports Officiating - Basketball. 1 cr. U. Officiating, conducting and administering the sport of basketball. | Prereq: none.

104 Sports Officiating - Volleyball. 1 cr. U. Officiating, conducting, and administering the sport of volleyball. | Prereq: none.


112 Yoga I. 1 cr. U. Theory and practice of yoga. | Prereq: none. It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.

113 Yoga II. 1 cr. U. Theory and practice of yoga II. | Prereq: Spt&Rec 112(P). It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.


121 Swim II. 1 cr. U. Theory and practice of swim II. | Prereq: Spt&Rec 120(P) or swim one length of pool (25 yards) any stroke.


<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>173</td>
<td>Tae Kwon-Do II</td>
<td>1 cr. U.</td>
<td>Theory and practice of tae kwon-do.</td>
<td>Prereq: Spt&amp;Rec 172(P) or equiv.</td>
</tr>
<tr>
<td>186</td>
<td>Karate II</td>
<td>1 cr. U.</td>
<td>Theory and practice of karate.</td>
<td>Prereq: Spt&amp;Rec 170(P) or 185(P).</td>
</tr>
<tr>
<td>187</td>
<td>Karate III</td>
<td>1 cr. U.</td>
<td>Theory and practice of karate.</td>
<td>Prereq: Spt&amp;Rec 171(P) or 186(P) or equiv.</td>
</tr>
<tr>
<td>192</td>
<td>Volleyball II</td>
<td>1 cr. U.</td>
<td>Theory and practice of volleyball.</td>
<td>Prereq: Spt&amp;Rec 178(P) or 191(P) or equiv.</td>
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<tbody>
<tr>
<td>289</td>
<td>General Recreation Activities: (Subtitled)</td>
<td>1-2 cr. U.</td>
<td>Topics of current interest focusing on life-long participation and skill development in general recreation and leisure activities. Credits for specific topics announced in Schedule of Classes.</td>
<td>Counts as repeat of Spt&amp;Rec 290 with same topic. May be retaken with change of topic. Prereq: none, except as required for specific topic.</td>
</tr>
<tr>
<td>290</td>
<td>Ad Hoc Course in Sport and Recreation: (Subtitled)</td>
<td>1-3 cr. U.</td>
<td>Topics of current interest in health, leisure, and recreation. May be retaken with change of topic. Special course fees may be required depending on course.</td>
<td>Prereq: specified in semester Schedule whenever required for a topic</td>
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<tr>
<td>291</td>
<td>Recreational Arts and Crafts: (Subtitled)</td>
<td>1-2 cr. U.</td>
<td>Topics of current interest focusing on life-long participation and skill development in the area of Arts and Crafts. Credits for specific topics announced in Schedule of Classes.</td>
<td>Counts as repeat of Spt&amp;Rec 290 with same topic. May be retaken with change of topic. Prereq: none, except as required for specific topic.</td>
</tr>
<tr>
<td>292</td>
<td>Social and Creative Dance: (Subtitled)</td>
<td>1-2 cr. U.</td>
<td>Topics of current interest focusing on life-long participation</td>
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</tbody>
</table>
and skill development in the area of Social and Creative Dance. Credits for specific topics announced in Schedule of Classes.\(\text{Counts as repeat of Spt&Rec 290 with same topic. May be retaken with change of topic. Prereq: none, except as required for specific topic.}\)

**293 Martial Arts: (Subtitled). 1-2 cr. U.** Topics of current interest focusing on life-long participation and skill development in martial arts. Credits for specific topics announced in Schedule of Classes.\(\text{Counts as repeat of Spt&Rec 290 with same topic. May be retaken with change of topic. Prereq: none, except as required for specific topic.}\)

**294 Wilderness Adventure and Outdoor Activities: (Subtitled). 1-2 cr. U.** Topics of current interest focusing on life-long participation and skill development in the areas of Wilderness Adventure and Outdoors Activities. Credits for specific topics announced in Schedule of Classes.\(\text{Counts as repeat of Spt&Rec 290 with same topic. May be retaken with change of topic. Prereq: none, except as required for specific topic.}\)

**295 Organized Sport: (Subtitled). 1-2 cr. U.** Topics of current interest focusing on life-long participation and skill development in the area of sport. Credits for specific topics announced in Schedule of Classes.\(\text{Counts as repeat of Spt&Rec 290 with same topic. May be retaken with change of topic. Prereq: none, except as required for specific topic.}\)

**296 Exercise and Fitness Activities: (Subtitled). 1-2 cr. U.** Topics of current interest focusing on life-long participation and skill development in the area of Exercise and Fitness. Credits for specific topics announced in Schedule of Classes.\(\text{Counts as repeat of Spt&Rec 290 with same topic. May be retaken with change of topic. Prereq: none, except as required for specific topic.}\)

**298 Meditation, Relaxation, and Wellness: (Subtitled). 1-2 cr. U.** Topics of current interest focusing on life-long participation and skill development in the areas of meditation, relaxation, and wellness. Credits for specific topics announced in Schedule of Classes.\(\text{Counts as repeat of Spt&Rec 290 with same topic. May be retaken with change of topic. Prereq: none, except as required for specific topic.}\)

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*This course information produced at 01:00 on 07/30/2015.*

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103 (HMS 101) Introduction to Leisure. 3 cr. U. Introductory survey of the historical, philosophical, sociological, developmental, and cultural aspects of recreation, leisure, and play. [Prereq: none.]

110 (Spt&Rec 231) New Games. 1 cr. U. The cooperative philosophy of play, game teaching methods and game design. Emphasis on participation involving high and low energy and small and large group activities. [Prereq: none.]


202 Disability: Society and the Person. 3 cr. U. Goals are to introduce and sensitize students to individuals with disabilities and to enable students to understand the psychological and social impact of disability. [Prereq: none.]

203 Therapeutic Recreation Process. 3 cr. U. Study of Therapeutic Recreation (TR) process including the values and underpinning of practice, and the inter-relationships between TR, health care and human service professionals. [Counts as a repeat of TherRec 390 with same topic. Course taught completely online. Prereq: none.]

245 Client Diversity in Health Sciences: An Interdisciplinary Perspective. 3 cr. U. Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity. [BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another. Prereq: soph st or cons instr.]

297 Study Abroad - Therapeutic Recreation: 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work. [Retakable w/chg in topic. Prereq: Acceptance to Study Abroad Prog.]

300 Therapeutic Recreation Assessment and Documentation. 4 cr. U. Study and practice of therapeutic recreation assessment and documentation techniques. [Prereq: none.]

301 Program Development and Evaluation in Therapeutic Recreation. 3 cr. U. Study of systematic program design and evaluation techniques. [Prereq: jr st in TherRec major or cons instr.]

302 (Spt&Rec 485) Leisure Education in Therapeutic Recreation. 3 cr. U. Study of leisure education models and techniques employed in therapeutic recreation. [Prereq: jr st in TherRec major or cons instr.]
303 Inclusive and Disability Programs in the Community. 3 cr. U. Study of concepts and practices related to the delivery of community programs for individuals with disabilities. Prereq: none.

308 Therapeutic Recreation in Physical Rehabilitation and Behavioral Health. 4 cr. U. Therapeutic recreation services for individuals with physical disabilities and psychiatric disorders. Not open for cr for students with cr in TherRec 304(ER) or TherRec 305(ER). Prereq: none.

309 Therapeutic Recreation in Pediatrics and Gerontology. 4 cr. U. Therapeutic recreation services for children/adolescents and elderly individuals. Not open for cr for students with cr in TherRec 306(ER) or 307(ER). Prereq: jr st or cons instr.

310 (201) Facilitation Techniques in Therapeutic Recreation. 4 cr. U. Study of therapeutic recreation facilitation techniques. Prereq: None.

390 Topics in Therapeutic Recreation: (Subtitled). 1-3 cr. U. Topics of current interest in therapeutic recreation. Specific credits and additional prerequisites will be announced in the Schedule of Classes whenever the course is offered. Prereq: none.

399 Independent Study in Therapeutic Recreation. 1-3 cr. U. Individualized experience which enables the student to study current topics of interest to the therapeutic recreation specialist. May be retaken to max of 3 cr. Prereq: jr st or cons instr.

400 Issues and Trends in Therapeutic Recreation (TR). 3 cr. U. Examination of the most current issues and trends in the field and advancement of the profession. Prereq: TherRec 308(P) or cons instr.

401 Therapeutic Recreation Internship and Seminar. 12 cr. U. Therapeutic recreation field instruction at approved agencies for forty hours per week for a full semester. Seminar to prepare students for professional involvement. Prereq: must have completed all course work in the TherRec major.

This course information produced at 01:00 on 07/30/2015.
**THEATRE Theatre**

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100 *Introduction to the Theatre*. 3 cr. U. Introduction to the theatre as a form of artistic, social and human expression from point-of-view of both theatre audience and theatre artist. Attendance at live theatrical performances required. Prereq: none.

101 *Acting for Non-majors*. 3 cr. U. An introduction to basic acting techniques of personalization, focus, and scene study explored through participatory and collaborative exercises and assignments. Prereq: Non-Theatre major.

102 *Introduction to Design and Production for Performance*. 3 cr. U. A study of production and performance ideas as they relate to the theatrical environment. Emphasis on production styles and the process of evolving the artistic concepts. Prereq: none.


111 *Theatre Games*. 3 cr. U. An introduction to a wide variety of improvisations and games which are designed to free and channel the self expression of performers and non-performers. Prereq: none.


202 *Theatre Practicum*. 1-4 cr. U. Practical work on live performance productions. Credit earned by serving on publicity, house, stage, sound, light, or costume crews, or by stage managing or performing. May be retaken to max of 4 cr. Prereq: Theatre 214(P), 225(P), 275(P); or cons instr.

204 *Participatory Theatre*. 3 cr. U. Introduction to the study, methodologies, and practice of participatory theatre including happenings, environmental theatre, therapeutic theatre, and celebratory theatre. Prereq: none

213 *Play Analysis*. 3 cr. U. Methods of analysis of the dramatic text for production; the elements of a play through
214 Stagecraft. 4 cr. U. Principles and practices of theatrical construction techniques for scenery and props, lighting and sound installation emphasizing safety and craftsmanship. Requires scheduled work in production studios under faculty supervision. Prereq: none

215 Properties Production. 3 cr. U. Introductory properties shop/management artisan skills with basic construction and finishing techniques for stage properties. Prereq: Theatre 214(P) or cons instr.

218 Drafting and Design Communication. 3 cr. U. Development of basic techniques in hand drafting and graphic communication for the theatre. Prereq: none.

219 Computer Assisted Drafting for the Theatre. 3 cr. U. Development of skills in computer aided drafting techniques for scenery, properties, and lighting. Specific computer hardware and/or software is required. Check with instr for specifics. Prereq: Theatre 218(P) or cons instr.

224 (104) Make-Up. 3 cr. U. Emphasis on materials, effects of light, color and character analysis. Prereq: none

225 Costume Construction. 4 cr. U. Mechanics and technology of art of costuming. All aspects of costumer's craft surveyed including practical work in shop. Prereq: none.

226 (112) Theatre Production and Design. 3 cr. U. Design process exploring styles, methods, and presentation for scenery and costumes in traditional and non-traditional theatre. Prereq: Theatre 214(P) or 225(P)

225(460) Storytelling: (Subtitled). 3 cr. U. Development of skills to locate, analyze, and tell stories from multicultural sources and ranging from personal experience to myths and legends. Retakeable with change in topic to max of 3 sem. Prereq: none, except as required for specific topic.

230 Acting 2: Text and Performance. 3 cr. U. Basic acting techniques in realism and extended realism through scene work and exercises exploring dramatic action, focus of attention and script analysis. Prereq: Theatre 110(P) or cons instr.

231 (106) Introduction to Voice and Speech. 3 cr. U. Lectures and exercises designed to begin the development of a more open, resonant, and flexible speaking voice for everyday use. Prereq: none.

236 Performing Arts Management. 3 cr. U. Exploration of stage and theatre management processes including rehearsal and production management techniques and introductory management principles for non-profit theatre. Prereq: Theatre major or cons instr.

238 Advanced Makeup: (Subtitled). 3-6 cr. U. Advanced Makeup techniques for stage and film. Counts as repeat of Theatre 690. May be retaken to max of 9 cr. Prereq: Theatre 224(P); or cons instr.
311 **Advanced Improvisation.** 3 cr. U. Advanced study in a wide variety of long-form acting improvisations designed to free and channel self expression of performers and non-performers.|Prereq: Theatre 111(P) or cons instr. Improvisational performance attendance required.

314 **Scenic Production.** 3 cr. U. Practical fabrication and installation of scenery with emphasis on advanced construction techniques, safety, and craftsmanship.|Prereq: Theatre 214(P).

315 **Advanced Properties Production.** 3 cr. U. Restoration and construction techniques for soft goods fabrication and prop furniture repair and modification.|Prereq: Theatre(ThrPTTP) 215(P) or 225(P).

318 **Scene Design.** 3 cr. U. Development of design sensibility for stage set design from script analysis, research, and initial concept to model making of final design.|Prereq: Theatre 236(112)(P) and Theatre 218(P) or cons instr.

319 **Scenic Painting.** 3 cr. U. Development of skills in stage painting techniques for scenery and properties.|Prereq: Theatre 236(112)(P) or cons instr.

320 **Performing Community.** 3 cr. U. Exploring the development of communities through cultural and performing practices through community-based work in the arts.|Prereq: Theatre 204(P) or 260(460)(P) or cons instr.


322 **The Theatre: Modern and Contemporary Period.** 3 cr. U. Study of the development of theatre art and its practice, performance, and scripts from 1900 to the present.|Prereq: soph st.

323 **Special Topics in World Theatre: (Subtitled).** 3 cr. U. Exploration of theatre and ritual in cultures and countries around the world.|Prereq: May be taken with chg in topic to 6 cr max.; Theatre 321(P) or 322(P) or cons instr.

324 **Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre.** 3 cr. U. Survey of Latin American, Caribbean, and U.S. Latina/o theatre and performance. History and cultures of the Americas that shape these productions.|Counts as repeat of LACS 324 or Latino 324. LACUSL 324 & Theatre 324 are jointly-offered; they count as repeats of one another. Prereq: jr st.

325 **History of Costume.** 3 cr. U. Study of costume and fashion from Egyptians to present. Emphasis on the sociological and cultural changes in patterns of dress and behavior.|Prereq: none.

330 **Acting Topics:*** 3 cr. U. Exploration of advanced acting techniques through various topic changes.|May be retaken with change in topic. Prereq: Theatre 230(P); & cons instr.

332 **Tailoring.** 3 cr. U. Construction of costume: tailoring techniques with an emphasis on textiles, cutting, fitting, and alterations.|Prereq: Theatre 285(P).

337 (217) **Sound Production.** 3 cr. U. Exploration of sound recording and playback techniques for live performance including digital editing and computer based show control systems.|Prereq: Theatre 214 (P) or cons instr.

338 (216) **Lighting Production.** 3 cr. U. Development of skills for producing stage lighting including electrical and color theory, wiring and control, focus, control programming and master electrician management techniques and design.|Prereq: Theatre 214(P) or cons instr.

339 **Stage Combat.** 3 cr. U. Basic techniques of unarmed stage combat focusing on safety, partnering skills, and technical proficiency.|Prereq: none.

343 (240) **Patternmaking I.** 3 cr. U. Flatpattern method. Includes drafting, pivoting, and slash and spread techniques.
354 Draping. 3 cr. U. Introduction to principles of draping techniques applied to stage costumes. Prereq: Theatre 343(P).

357 Digital Audio Workstations for Stage and Studio. 3 cr. U. Explore computer technology to create, manipulate, edit and render digital audio for performance and recording. Music, sound effects, synthesis, and MIDI are focus topics. Prereq: none, online course.

359 (effective 09/02/2015) Playwriting. 3 cr. U/G. Playwriting process through in-class exercises, writing assignments, critical analysis, and discussion. Prereq: jr st

359 Playwriting. 3 cr. U/G. Playwriting process through in-class exercises, writing assignments, critical analysis, and discussion. Prereq: Theatre 213(P); or cons instr.

360 Service-Learning in Theatre: (Subtitled). 1 cr. U. Applied theatre, social justice oriented, storytelling, and/or performance projects developed through service-learning and in community settings. Retakable with change in topic to max of 3 sem. Prereq: Theatre 260(460)(P) or cons instr.

380 Stage Management. 3 cr. U. Development of skills for the successful management of theatrical productions from auditions through rehearsal and performance. Prereq: Theatre 214(P).

400 Foundations. 1 cr. U. Exercises from various disciplines to stretch, energize, and prepare for the day's work in acting and production. May be retaken for cr. Prereq: Admis. to Theatre BFA Acting track.

401 Fabric Painting and Dyeing. 3 cr. U. Study and practical work in dyeing and painting fabrics for stage purposes. Prereq: Theatre(ThrPTTP) 225(P) or 215(P); or cons instr.

407 Contemporary Theatre Performance: (Subtitled). 1-3 cr. U. Study of plays and current productions, playwrights, directors, actors, and theatrical practices in selected cities. Credits determined in consultation with instructor. May be retaken with change in topic. Prereq: none.

408 Acting in Musical Theatre. 3 cr. U. Scene study in musical theatre, developing character through song, movement and text. Prereq: Theatre 110(P) or cons instr.

410 Stage Directing. 3 cr. U/G. Basic skills of staging, play analysis, rehearsal technique, and production organization. Prereq: jr st; Theatre 213(P) & 230 (P); or cons instr.

412 Career Preparation and Development. 2 cr. U. The development of portfolio and interview techniques in preparation for careers in stage management, costume production, or technical production. Prereq: Theatre 275(P) or cons instr.

415 Casting and Molding for the Stage. 3 cr. U. Study of one-part and two-part molding and casting applications including sculpting for mask making and stage properties. Prereq: Theatre 215(P) or 225(P) or cons instr.

418 Lighting Design. 3 cr. U. Exploration of elements and principles of lighting design and creative design process. Prereq: Theatre 338(216)(P) or cons instr.

430 Stage Voice and Speech 1. 3 cr. U. Exploration of vocal anatomy, breath and breath support for speech, individual vocal habits and the actor's vocal warm-up. Prereq: Admis to Theatre BFA Acting track.

431 Stage Voice and Speech 2. 3 cr. U. Continuation of Theatre 430. Prereq: Theatre 430(P).

432 Advanced Theatre Practicum. 1-6 cr. U. Advanced level practical work on live performance productions
performing, serving on publicity, management, stage or costume crews. May be retaken to max of 9 cr. Prereq: jr st, Theatre 202(P)(Thr BA 202).

435 Production Management. 3 cr. U. Theatre management processes utilizing leadership, problem-solving, and project management skills for budgeting, scheduling, personnel and facility management, and season planning. Prereq: Theatre 275(P) or cons instr.

437 (317) Sound Design and Technology. 3 cr. U. Skill development in sound design and editing utilizing soundscaping and basic music composition for storytelling on the stage. Prereq: Theatre 214(P) or cons instr.

440 Physical Performance 1. 3 cr. U. Training and exercises to create physical awareness, skills, and presence in space for performance through movement, improvisation, and sensory/composition work. Prereq: Admis to Theatre BFA acting track.

441 Physical Performance 2. 3 cr. U. Physical exercises, improvisation, and text work to deepen the connection between actor and imagination utilizing full bodywork for creating character and dramatic action. Prereq: admis to Theatre BFA acting track; Theatre 440(P).


448 The Creative Classroom: Drama & Arts Learning K-8. 3 cr. U. Understanding and utilizing creative drama and other arts-in-education techniques to enhance experiential learning in classrooms and other educational venues. Prereq: soph st or cons instr.

463 Master Class in Professional Theatre Study. 1 cr. U. Ongoing development of aesthetic and professional philosophies and practices in performance. Retakable to max of 6 cr. Prereq: Admis to Theatre BFA acting track or writ cons instr.

465 Theatre Capstone: (Subtitled). 3 cr. U. Theatre techniques to enhance communication, mediation, and leadership in community, cultural, educational, and business settings. Community-based project work required. May be retaken with chg in topic to 6 cr max. Prereq: Theatre 320(P); or cons instr.

470 Acting Technique 3. 4 cr. U. Development of basic acting skills and application to texts drawn from American realism. Emphasis on psycho-physical technique, dramatic action, personalization, expressive use of self. Prereq: Theatre Major with admission to BFA acting track.


472 Performance Workshop Capstone. 2-4 cr. U. Workshops in creating performance under faculty supervision. May be retaken for cr. Prereq: Theatre 320(P) or 359(P) or 218(P); or cons instr.

473 Theatre in Elementary Education. 3 cr. U. Theatre experiences for growth and development of elementary school child. Discussion, lectures, and experimentation, analysis of materials, age groups, and situations. Teaching of children's theatre classes. Prereq: soph st or cons instr.

474 Theatre in Secondary Education. 3 cr. U. Methods and philosophy of teaching theatre in the secondary school. Theory and practice in solving problems arising in practical teaching situations. Observation of Theatre classes. Prereq: soph st or cons instr.

475 Rehearsal and Performance: 2-3 cr. U. Practical experience in the preparation, rehearsal, stage management or performance of theatrical productions. May be retaken for credit to max of 12 cr. Credit granted per production assignment. Prereq: cons instr.
480 Leadership Skills for Theatre Management. 3 cr. U. Development of management skills for organizing and running theatrical productions by understanding personal leadership styles, communication techniques, conflict resolution, and problem-solving within the artistic process.|Prereq: Theatre 380(P) & cons instr.

484 Field Work in Theatre. 1-3 cr. U/G. Theatre education field experiences in schools, agencies, and institutions.|Retakeable to max of 3 sem. Prereq: Theatre majors; Thr BA 473(P) or 474(P); & cons instr.

485 Elementary Level Student Teaching in Theatre. 2-6 cr. U/G. Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of Theatre faculty; weekly seminar; portfolio development.|May not be retaken for cr. Prereq: jr st & admis to Theatre teaching cert & cons instr.

486 Secondary Student Teaching in Theatre. 2-6 cr. U/G. Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of the Theatre faculty; weekly seminar; portfolio development.|May not be retaken for cr. Prereq: jr st; admis to Theatre teaching cert; Theatre 484(P) & writ cons instr.

490 Topics in Theatre: (Subtitled). 2-4 cr. U/G. Various forms of theatre processes or theatrical presentation/production. Specific credits announced in Schedule of Classes whenever course is offered.|May be retaken with change in topic to max of 8 cr. Prereq: jr st; see Schedule of Classes for add'l prereq's.

497 Study Abroad in Theatre. (Subtitled). 1-12 cr. U. Interdisciplinary and foundational exploration of world theatre through exchange programs, performance tours, or foreign cultural study.|May be retaken with change in topic. Prereq: acceptance for Study Abroad Prog. Foreign language proficiency required for some programs.

530 Stage Voice and Speech 3. 3 cr. U. Vocal exploration through analysis of verse and heightened language, recorded voice work, and beginning dialects for the stage.|Prereq: Theatre 431(P).

531 Stage Voice and Speech 4. 3 cr. U. Advanced dialects for stage utilizing individual research and presentation of a dialect focusing on advanced voice and speech work.|Prereq: Theatre 530(P).

540 Physical Performance 3. 3 cr. U. Development of and training in extended physical theatre techniques drawn from current performance research and text study.|Prereq: Theatre 441(P).


570 Acting 5. 4 cr. U. Scene work in pre-modern texts.|Prereq: Admis to Theatre BFA acting track, Theatre 471(P)

571 Acting 6. 4 cr. U. Contemporary Performance Techniques. Work in the development and performance of new and contemporary material through ensemble work and physical theatre techniques.|Prereq: Admis to Theatre BFA acting track; Theatre 570(P).

575 Studio. 1-4 cr. U. Practical application of all phases of production, rehearsal, and performance.|May be retaken to max of 16 cr. Prereq: admis to Costume or Tech. Prod. Theatre BFA track.

675 Advanced Studio. 1-6 cr. U. Advanced practical application of all phases of production, rehearsal, and performance.|May be retaken to max of 12 cr. Credit granted per production assignment. Prereq: Theatre 575(P) or 475(P); & cons instr.

680 Seminar in Theatre History: (Subtitled). 3 cr. U. Discussion and research in a specific area of Theatre history.|May be retaken with topic change. Prereq: cons instr.

681 Seminar in Dramatic Literature: (Subtitled). 3 cr. U. Discussion and research in a specific area of dramatic literature.|May be retaken with topic change to a 9 cr max. Prereq: cons instr.
685 Internship in Professional Theatre. 1-6 cr. U/G. Engagement with a professional Theatre in individual discipline area.|May be retaken to max of 12 cr. Prereq: jr st.

689 Independent Study-Stage Management. 1-6 cr. U/G. Individualized program of supervised study in stage management. Work on productions in stage management is required.|May be retaken to max of 9 cr. Prereq: jr st & cons instr.


692 Independent Study-Technical Theatre, Scene Design and Lighting. 1-6 cr. U/G. Individual program of supervised study in technical theatre, scene design, or lighting.|May be retaken to max of 9 cr. Prereq: jr st & cons instr.


699 Independent Study: (Subtitled). 1-6 cr. U/G. Individual program of supervised study in the student's area of emphasis.|May be retaken to max of 9 cr. Prereq: jr st & cons instr.
URBPLAN Urban Planning

140 Issues in Contemporary Urban Planning. 3 cr. U. To explore areas of employment, poverty, health, politics, police, corrections, education, and housing and the relationship of the professional to these problems. Prereq: none.

141 Urban Planning Solutions to Contemporary Urban Problems. 3 cr. U. Community facilities planning, policy planning, private sector involvement, and community participation are explored as four of the avenues open to planners. Prereq: none.

292 Current Planning Issues: (Subtitled). 3 cr. U. This course provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis. Retakeable w/content change to 9 cr max. Prereq: soph st.

315 Great Cities of the World: Their Growth and Guided Urbanization. 3 cr. U. Great cities of the world, how they were built and developed. Culture, politics and economics, their role in urban planning and the built form. Prereq: soph st.

316 Planning for the Great Cities of America. 3 cr. U. The study of planning and development programs of large American cities and their approaches to growth, change, and decay, with a view to future solutions. Prereq: soph st.

350 Social Justice, Urban Planning and the New Multicultural America. 3 cr. U. Examination of historical, sociological, economic and political relationships that impact urban communities. Community and social justice issues are addressed from a planning perspective. Prereq: soph st.


491 Urban Planning Internship. 3 cr. U. Practical urban planning experience with a government agency or private firm under the supervision of a working expert and a faculty member. Prereq: sr st & cons instr.

497 Study Abroad: (Subtitled). 3-12 cr. U. Field study designed to provide relevant course work for a study abroad program in urban planning. Retakeable w/chg in topic. Prereq: acceptance to Study Abroad Prog.

591 Introduction to Urban Geographic Information Systems (GIS) in Planning. 3 cr. U. Use of spatially related
information including GIS and land record systems for improved productivity and decision making in service delivery, management, policy planning and land development.|Counts as repeat of UrbPlan 692 with same title. Prereq: jr st.

614 Planning and the Suburbs: Their Growth and Maturity. 3 cr. U/G. Relationships between suburbs and cities and differences in their architecture, governance, and provision of public services as well as current trends in suburban development.|Prereq: sr st.

630 Budgeting and Finance in the Public Sector. 3 cr. U/G. Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.|Jointly-offered w/& counts as repeat of Pub Adm 630(Pol Sci 630). Prereq: sr st or cons instr.

651 Land Use Planning Practice. 3 cr. U/G. Specific land planning methods and applications (subdivision regulation, zoning, site plan review, building permit process) used to implement community plans.|Prereq: sr st.

655 Negotiation Theory and Practice for Urban Planners. 3 cr. U/G. Negotiation theory and practice, focusing on skills used by planners in balancing the needs of general public with those of private interests.|Counts as repeat of UrbPlan 692 with same title. Prereq: sr st or cons instr.

661 Neighborhood Planning and Revitalization. 3 cr. U/G. Problems, resources and potentials of urban neighborhoods; trends of neighborhood change and revitalization; neighborhood planning approaches, methods and cases; neighborhood planning project or case study.|Prereq: sr st or cons instr.

662 Land Use Planning for Urban Redevelopment. 3 cr. U/G. Introduction to contemporary trends in urban redevelopment; focus on planning and development techniques used to revitalize declining urban areas.|Prereq: jr st.

682 Planning for Sustainable Energy. 3 cr. U/G. An exploration of the need for sustainable energy, the potential savings in various alternatives, and the roles and specific actions local governments can take.|Prereq: sr st.


692 Special Topics in Urban Planning: (Subtitled). 1-3 cr. U/G. Provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis. Specific cr & any additional prereqs announced in Schedule of Classes whenever course is offered.|Retakeable with change in topic to max of 9 cr. Prereq: jr st or cons instr.

This course information produced at 01:00 on 07/30/2015.
150 Multicultural America. 3 cr. U. Cross-cultural study of U.S. ethnic and racial identities from an urban studies perspective, with attention to African-, Asian-, Hispanic-, and Native-American experiences. Cultures and Communities Prog course; req'd service learning component. Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

250 Exploring the Urban Environment. 3 cr. U. The nature of the city, the processes that effect change, and the future of the city. Prereq: none.

289 Internship in Urban Studies, Lower Division. 1-6 cr. U. Application of basic principles of Urban Studies in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: intro course in Urb Std or related area; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.


377 Urbanism and Urbanization. 3 cr. U. Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas. Sociol 377 & Urb Std 377 are jointly-offered; they count as repeats of one another. Prereq: jr st & a Sociol 100-level course; or Urb Std 250(P).
381 Honors Seminar: (Subtitled). 3H cr. U. Selected topics.|Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.


489 Internship in Urban Studies, Upper Division. 1-6 cr. U. Application of advanced principles of urban studies in a business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Urb Std or related area; 2.5 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.|Prereq: jr st; acceptance for Study Abroad Prog, contact CIE Overseas Programs, PER 166, 229-5182.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

600 Capstone Seminar in Urban Studies. 3 cr. U. Seminar on concepts, methods, and approaches to field of Urban Studies; readings and discussions on urban scholarship; students produce research proposals tailored to their interests.|Prereq: sr st; declared Urb Std major.

625 Law and Urban Poverty. 3 cr. U/G. Examination of the relationship between law and poverty, with emphasis upon federal legislative attempts in specific problem areas to alleviate the condition of poverty.|Prereq: jr st; cons instr.


699 Independent Reading. 3 cr. U. Advanced readings and study in Urban Studies.|Retakable w/chg in topic. Prereq: jr st; 2.5 gpa; cons instr, dept chair, & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.
UWM Undergraduate Catalog 2014-2015

College of Letters and Science

WMNS Women's Studies Program

This course information produced at 01:00 on 07/30/2015.
[ College of Letters and Science Home Page ]  
[ Up to Undergraduate Catalog School/College ]  
[ Up to Undergraduate Catalog Department ]

150 Multicultural America. 3 cr. U. Cross-cultural and interdisciplinary study of U.S. ethnic and racial identities and experiences, with special attention paid to women's and gender issues. [Cultures and Communities Prog course; req'd service learning component. Prereq: none.]

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. [Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.]

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. [Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.]

199 Independent Study. 1-3 cr. U. Independent work supervised by Women's Studies faculty or staff member. Written proposal required prior to registration. For additional information, consult Wmn's Stds prog asst dir. [Retakable to 6 cr max. Prereq: 2.5 gpa; writ cons instr, Wmn's Stds prog dir & assoc dean for SAS.]

200 Introduction to Women's Studies: A Social Science Perspective. 3 cr. U. An interdisciplinary course with focus on social science approaches to the situation of women. [May not be taken for cr if Wmns 201 or L&S-Hum 201 is also taken. Prereq: none.]

201 Introduction to Women's Studies: A Humanities Perspective. 3 cr. U. An interdisciplinary course with focus on humanities approaches to the situation of women. [May not be taken for cr if Wmns 200 or L&S SS 200 is also taken. Prereq: none.]

211 Foundations of Women's Studies Writing and Research. 3 cr. U. Introductory exploration of the meaning and practice of feminist research, with an emphasis on critical reading, writing, and analytical skills. [Counts as repeat of Wmn's 290 w/same topic. Prereq: Wmn's 200(P) or 201(P).]

290 Selected Topics in Women's Studies: (Subtitled). 3 cr. U. Selected women's studies issues and topics, limited to undergraduates. [Specific topics and add'l prereqs announced in Schedule of Classes each time course is offered. Retakable w/chg in topic to 9 cr max. Prereq: none.]
### 297 Study Abroad: (Subtitled) 1-12 cr. U.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

### 299 Ad Hoc: (Subtitled) 1-6 cr. U.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

### 300 Gender and Spirituality: (Subtitled) 3 cr. U.
Ways in which gender informs spiritual teachings and practices globally and historically; relationship between spiritual beliefs and the constructions of social, cultural, and political realities. Retakable w/chg in topic to 6 cr max. Prereq: jr st.

### 301 Queer Theory 3 cr. U.

### 302 Gendered Bodies: (Subtitled) 3 cr. U.
Feminist interdisciplinary approach to the human body; its life changes as socially constructed and conditioned by cultural ideas and practices of gender and other differences. Retakable w/chg in topic to 6 cr max. Prereq: jr st.

### 303 Feminist Activism and Movements: (Subtitled) 3 cr. U.
Feminist activism and women's social and political movements in a global and historical context. Retakable w/chg in topic to 6 cr max. Prereq: jr st.

### 380 Honors Seminar in the Social Sciences: (Subtitled) 3H cr. U.
Selected topics in women's studies from a social science perspective. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

### 381 Honors Seminar in the Humanities: 3H cr. U.
Selected topics in women's studies from a humanities perspective. Retakable w/chg in topic to 9 cr max. Prereq: soph st; Honors 200(P); cons Honors College dir.

### 401 Global Feminisms 3 cr. U/G.
Interdisciplinary study of women and gender in international perspective, including topics such as work, religion, ideology, and UN conferences. Prereq: jr st & Wmns 200(P) or 201(P); or grad st.

### 402 Capstone Seminar in Women's Studies: 3 cr. U.
Capstone course for women's studies majors and certificate students, focusing on student research on various topics pertaining to women such as 'Gender and Power.' Not retakable. Prereq: sr st; 6 cr in women's studies, including Wmns 200(P) or 201(P).

### 410 Feminist Theory 3 cr. U/G.
Interdisciplinary survey of theories that shape and inform women's studies and feminist scholarship. Prereq: jr st; Wmns 200(P) or 201(P); or grad st.

### 411 (400) Women's Studies Research and Methods: (Subtitled) 3 cr. U/G.
Interdisciplinary course with focus on women's studies research methods, explored through selected topics such as 'Gendered Bodies.' Not retakable. Prereq: jr st, Wmns 200(P) or 201(P), & Wmns 410(P) or equiv; or grad st.

### 489 Internship in Women's Studies. 1-3 cr. U.
Application of advanced principles of Women's Studies in an appropriate organizational, educational, business, or political setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; Wmns 200(P), 201(P), 500(P), or 501(P); 2.50 gpa & cons Women's Studies Prog dir.

### 497 Study Abroad: (Subtitled) 1-12 cr. U/G.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

### 499 Ad Hoc: (Subtitled) 1-6 cr. U.
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.


535 Philosophical Topics in Feminist Theory: (Subtitled). 3 cr. U/G. Study of selected feminist theorists with an emphasis on past or contemporary thinkers. Attention will be paid to the philosophical importance of the problems raised. Retakable w/chg in topic to a 6 cr max. Philos 535 & Wmns 535 are jointly offered; with same topic, they count as repeats of one another. Prereq: jr st; a course in philos or women's stds.

599 Topics in Women's Studies: (Subtitled). 1-3 cr. U/G. Specific topics, cr, and add'l prereqs announced in Schedule of Classes each time course is offered. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

699 Independent Reading. 1-3 cr. U. Advanced independent work under supervision of a Wmns stds faculty or instructional academic staff member. Students must submit study proposal. For more information, consult Wmns stds Prog asst dir. Retakable. Prereq: jr st; 2.5 gpa; writ cons instr, Wmns stds Prog dir & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
AIS American Indian Studies

101 Introduction to American Indian Studies. 3 cr. U. Indigenous experience in the land now called U.S.A.; colonization, tradition and spirituality, indigenousness and sovereignty; current issues, e.g., language preservation, treaty rights, social justice. Theoretical approaches. Prereq: none.


105 (effective 09/02/2015) Anishinaabe Ethnobotany: Plants in Anishinaabe Culture. 3 cr. U. Anishinaabe botanical knowledge as it relates to Anishinaabe culture. No cr for students who have cr in Bio Sci 105. Prereq: none.

106 (effective 09/02/2015) Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy. 3 cr. U. Anishinaabe philosophical and religious beliefs incorporating botanical knowledge. AIS 106 & ReligSt 106 are jointly offered; they count as repeats of one another. Prereq: none.


192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>199</td>
<td>Independent Study</td>
<td>3 cr. U.</td>
<td>Independent work supervised by a member of the AIS Program instructional staff. Retakable w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, prog coord, &amp; assoc dean for SAS.</td>
</tr>
<tr>
<td>203</td>
<td>Western Great Lakes American Indian Community Life of the Past</td>
<td>3 cr. U.</td>
<td>Study of western Great Lakes American Indian community life of the past, with an emphasis on pre-European conditions, social organizations, value systems, family life, ceremonial life. Counts as a repeat of Ethnic 203. Prereq: none.</td>
</tr>
<tr>
<td>225</td>
<td>The Aztec Empire</td>
<td>3 cr. U.</td>
<td>Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives. AIS 225 &amp; Anthro 225 are jointly offered; they count as repeats of one another. Prereq: none.</td>
</tr>
<tr>
<td>251</td>
<td>Third Semester Anishinaabemowin (Ojibwe)</td>
<td>4 cr. U.</td>
<td>Third-quarter speaking, listening and writing skills in Anishinaabemowin, the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa and Potawatomi nations. Satisfies L&amp;S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER. Prereq: AIS 152 or level 3 placement. Generates L&amp;S credit for demonstrated equivalent preparation (8 retro cr).</td>
</tr>
<tr>
<td>262</td>
<td>North American Indian History to 1887</td>
<td>3 cr. U.</td>
<td>A survey of Native American history from aboriginal times to 1887. Emphasis will be placed on American policies and change within Indian societies. AIS 262 &amp; Hist 262 are jointly offered; they count as repeats of one another. Prereq: none.</td>
</tr>
<tr>
<td>263</td>
<td>North American Indian History Since 1887</td>
<td>3 cr. U.</td>
<td>A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century. AIS 263 &amp; Hist 263 are jointly offered; they count as repeats of one another. Prereq: none.</td>
</tr>
<tr>
<td>276</td>
<td>Introduction to American Indian Literature</td>
<td>3 cr. U.</td>
<td>Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe of time period. AIS 276 &amp; English 276 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg in topic to 9 cr max. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.</td>
</tr>
<tr>
<td>289</td>
<td>Internship in American Indian Studies, Lower Division</td>
<td>1-6 cr. U.</td>
<td>Application of basic principles of American Indian Studies in a business, organizational, educational, political, or other appropriate settings. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: AIS 101(P); 2.25 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>296</td>
<td>UROP Apprenticeship, Lower Division</td>
<td>1-3 cr. U.</td>
<td>Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.</td>
</tr>
<tr>
<td>297</td>
<td>Study Abroad</td>
<td>1-12 cr. U.</td>
<td>Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.</td>
</tr>
<tr>
<td>299</td>
<td>Ad Hoc</td>
<td>1-6 cr. U.</td>
<td>Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.</td>
</tr>
<tr>
<td>308</td>
<td>Archaeology of North America</td>
<td>3 cr. U/G.</td>
<td>Main pre-Columbian cultures on the North American continent, north of Mexico. AIS 308 &amp; Anthro 308 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 103(P) or cons instr.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>310</td>
<td>Archaeology of Middle America.</td>
<td>3</td>
<td>U/G</td>
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<tr>
<td>311</td>
<td>The World of the Ancient Maya.</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>314</td>
<td>American Indian Societies and Cultures.</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>320</td>
<td>Social Change in American Indian Societies.</td>
<td>3</td>
<td>U</td>
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<tr>
<td>321</td>
<td>Contemporary Issues of the American Indian.</td>
<td>3</td>
<td>U</td>
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<tr>
<td>360</td>
<td>Ezhi-Kinomaageying: Anishinaabe Curriculum.</td>
<td>3</td>
<td>U</td>
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<tr>
<td>362</td>
<td>System Failure: Globalization and Language Extinction.</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>370</td>
<td>Anishinaabebiige: Archival to Contemporary Writing.</td>
<td>3</td>
<td>U</td>
</tr>
<tr>
<td>372</td>
<td>Survey of American Indian Literature.</td>
<td>3</td>
<td>U</td>
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<tr>
<td>473</td>
<td>History of Wisconsin Indians.</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>474</td>
<td>Topics in North American Indian History:</td>
<td>3</td>
<td>U/G</td>
</tr>
<tr>
<td>475</td>
<td>American Indian History, Law, and Government.</td>
<td>3</td>
<td>U/G</td>
</tr>
</tbody>
</table>
489 Internship in American Indian Studies, Upper Division. 1-6 cr. U. Application of advanced principles of American Indian Studies in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 2.25 gpa; cons supervising faculty member.

496 UROP Apprenticeship, Upper Division. 1-3 cr. U. Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or con reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

520 Studies in American Indian Literature: (Subtitled). 3 cr. U. Critical study of themes, figures, aspects, trends, etc., in American Indian Literature. AIS 520 & English 520 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg of topic to 9 cr max. Prereq: jr st; satisfaction of GER English Composition competency req.

525 American Indian Literature, Culture, and Creative Arts. 3 cr. U/G. Critical methods in understanding indigenous literature, cultures, and creative arts; uses of arts in indigenous cultures; how arts influence people's views of indigenous peoples. AIS 525 & English 525 are jointly offered; they count as repeats of one another. Prereq: jr st; completion of GER English Composition competency req.

600 Field Project - Capstone Research or Applied Project. 6 cr. U. Research or applied project on area of student's interest under supervision of AIS faculty member. Formal field project paper required. Prereq: jr st; declared AIS major.

600 (effective 09/02/2015) Field Project - Capstone Research or Applied Project. 3 cr. U. Research or applied project on area of student's interest under supervision of AIS faculty member. Formal field project paper required. Prereq: jr st; declared AIS major.

632 Seminar in American Indian Literature: (Subtitled). 3 cr. U/G. Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian. AIS 632 & English 632 are jointly offered; w/same topic they count as repeats of one another. Retakable w/chg in topic of 6 cr max. Prereq: sr st, satisfaction of GER English Composition competency req, 9 cr English and/or CompLit at the 300-level or above; or grad st.

699 Advanced Independent Study. 3 cr. U. Advanced independent work under the supervision of an AIS Program instructional staff member. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 GPA; cons supervising instr, program coord, & associate dean of SAS.

This course information produced at 01:00 on 07/30/2015.
College of Health Sciences

C L SCI Clinical Lab Sciences
103 (Linguis 181) First Semester Gaelic. 3 cr. U. Beginning Gaelic for students with no previous knowledge of the language. Counts as repeat of Linguis 131 with 'First Semester Gaelic' subtitle. Prereq: none.


133 (Ethnic 133) Celtic Crossings: Overview of the History and Cultures of the Celtic World. 3 cr. U. Interdisciplinary exploration of the archaeology, history, literature, language, myth, and arts of the Celtic peoples (Cornish, Irish, Scots, Welsh, Manx, Breton, & Galician). Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work supervised by Celtic Studies faculty or staff member. Written course proposal required prior to reg. For additional information, consult prog coord. Retakable w/chg in topic to 9 cr max. Prereq: 2.50 gpa on at least 12 graded cr; writ cons instr & prog coord.

203 (Linguis 231) Third Semester Gaelic. 3 cr. U. Continuation of Celtic 104 (Linguis 182). Counts as repeat of Linguis 231 with 'Irish (Gaelic)' subtitle. Prereq: Celtic 104(Linguis 182)(P).

204 (Linguis 282) Fourth Semester Gaelic. 3 cr. U. Continuation of Celtic 203(Linguis 281). Counts as repeat of Linguis 232 with 'Irish (Gaelic)' subtitle. Prereq: Celtic 203(Linguis 281)(P).

250 Selected Topics in Celtic Studies: (Subtitled). 3 cr. U. Focus on an individual Celtic group or one particular aspect of Celtic culture. Not open to students with cr in Ethnic 250 with similar topic. Retakable w/chg in topic to 9 cr max. Prereq: none.
285 Modern Irish Language and Literature in Translation. 3 cr. U. Major works of literature written in Irish Gaelic, eighth century to present day, in bilingual (Irish/English) texts. Celtic 285 & English 285 are jointly offered; they count as repeats of one another. Prereq: grade of C or better in English 102(P) or score at level 4 on EPT.

289 Internship in Celtic Studies, Lower Division. 1-6 cr. U. Application of basic principles of Celtic studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: intro course in Celtic stds; 2.25 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

350 Advanced Topics in Celtic Studies: (Subtitled). 3 cr. U. Focus on an individual Celtic group or one particular aspect of Celtic culture. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

489 Internship in Celtic Studies, Upper Division. 1-6 cr. U. Application of basic principles of Celtic studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above course in Celtic stds; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topics.

699 Advanced Independent Study. 1-3 cr. U. Independent work supervised by Celtic Stds faculty or staff member. Writ course proposal req'd prior to reg. For add'l info, consult prog coord. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, prog coord, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
101 (Linguis 121) **First Semester Chinese. 5 cr. U.** Beginning Chinese for students with no previous knowledge of the language. | Prereq: none.

102 (Linguis 122) **Second Semester Chinese. 5 cr. U.** Continuation of Chinese 101(Linguis 121). | Prereq: Chinese 101(Linguis 121)(NP). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).


192 **First-Year Seminar: (Subtitled). 3 cr. U.** Specific humanities topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

197 **Study Abroad: (Subtitled). 1-12 cr. U.** Designed to enable students studying language abroad to receive course credit at appropriate level. | Retakable w/ change in topic. Prereq: acceptance in Study Abroad Prog.

199 **Independent Study. 1-3 cr. U.** Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. | Retakable to 6 cr max. Prereq: 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

200 **Chinese Calligraphy. 3 cr. U.** Hands-on practice, history, development, aesthetics, and appreciation of Chinese calligraphy; aspects of the fascinating cultural heritage of China. | No cr for students w/cr in Linguis 200 with same topic. Prereq: none.

201 (Linguis 221) **Third Semester Chinese. 5 cr. U.** Continuation of Chinese 102(Linguis 122). | Prereq: Chinese 102(Linguis 122)(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

202 (Linguis 223) **Fourth Semester Chinese. 5 cr. U.** Continuation of Chinese 201(Linguis 221). | Prereq: Chinese 201(Linguis 221)(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>277</td>
<td>Chinese Discussion Section: (Subtitled)</td>
<td>1 or 2 cr.</td>
<td>Discussion in Chinese, designed to broaden perspectives, improve language skills. Offered in conjunction with courses in other disciplines (Anthro, Hist, Pol Sci, etc.). Retakable w/chg in topic to 6 cr max. Prereq: Chinese 202 (Lingu 223) (P) or cons instr.</td>
</tr>
<tr>
<td>289</td>
<td>Internship in Chinese, Lower Division</td>
<td>1-6 cr.</td>
<td>Application of basic principles of Chinese in business, organizational, educational, political, or other appropriate setting. Retakable to 6 cr max. Prereq: 2.50 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>296</td>
<td>UROP Apprenticeship</td>
<td>1-3 cr.</td>
<td>Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs &amp; srs. Prereq: acceptance to UROP; prior or concurrent reg in UROP seminar.</td>
</tr>
<tr>
<td>297</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.</td>
</tr>
<tr>
<td>299</td>
<td>Ad Hoc: (Subtitled)</td>
<td>1-6 cr.</td>
<td>Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.</td>
</tr>
<tr>
<td>301 (Linguis 321)</td>
<td>Fifth Semester Chinese</td>
<td>4 cr.</td>
<td>Continuation of Chinese 202 (Lingu 223). Prereq: Chinese 202 (Lingu 223) (P) or equiv. Generates L&amp;S credit for demonstrated equivalent preparation (16 retro cr).</td>
</tr>
<tr>
<td>302 (Linguis 322)</td>
<td>Sixth Semester Chinese</td>
<td>4 cr.</td>
<td>Continuation of Chinese 301 (Lingu 321). Prereq: Chinese 301 (Lingu 321) (P) or equiv. Generates L&amp;S credit for demonstrated equivalent preparation (16 retro cr).</td>
</tr>
<tr>
<td>320</td>
<td>Contemporary Chinese Societies through Film</td>
<td>3 cr.</td>
<td>Film as a context for examining issues in contemporary societies of China and Taiwan; emphasis on development of language proficiency. Prereq: Chinese 202 (P).</td>
</tr>
<tr>
<td>397</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.</td>
</tr>
<tr>
<td>441 (310)</td>
<td>Business Chinese</td>
<td>3 cr.</td>
<td>Chinese in cultural contexts of actual business situations; commonly-used commercial terms, phrases, sentence patterns, and cultural background. Prereq: Chinese 302 (Lingu 322) (P).</td>
</tr>
<tr>
<td>489</td>
<td>Internship in Chinese, Upper Division</td>
<td>1-6 cr.</td>
<td>Application of basic principles to Chinese in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.</td>
</tr>
<tr>
<td>497</td>
<td>Study Abroad: (Subtitled)</td>
<td>1-12 cr.</td>
<td>Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.</td>
</tr>
<tr>
<td>499</td>
<td>Ad Hoc: (Subtitled)</td>
<td>1-6 cr.</td>
<td>Course created expressly for offering in a specified enrollment period. Requires</td>
</tr>
</tbody>
</table>
only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level.|Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Chinese studies faculty or academic staff member.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

This course information produced at 01:00 on 07/30/2015.
199 Independent Study. 1-3 cr. U. Independent work supervised by Digital Arts and Culture faculty or staff member. Written course proposal required prior to reg. For additional information, consult prog coord. Retakable w/chg in topic to 6 cr max. Prereq: 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

289 Internship in Digital Arts and Culture, Lower Division. 1-6 cr. U. Application of basic principles of Digital Arts and Culture in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: 2.5 gpa; cons supervising faculty member.

296 UROP Apprenticeship, Lower Division. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

489 Internship in Digital Arts and Culture, Upper Division. 1-6 cr. U. Application of advanced principles of Digital Arts and Culture in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max. Prereq: jr st; 2.5 gpa; cons supervising faculty member.

496 UROP Apprenticeship, Upper Division. 1-3 cr. U. Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

699 Advanced Independent Study. 1-3 cr. U. Independent work supervised by Digital Arts and Culture faculty or staff member. Writ course proposal req'd prior to reg. For add'l info, consult prog coord. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, prog coord, & asst dean for SAS.
FOOD Food Studies

This course information produced at 01:00 on 07/30/2015.
[College of Letters and Science Home Page]
[Up to Undergraduate Bulletin School/College]

This course information produced at 01:00 on 07/30/2015.

[College of Letters and Science Home Page]
University of Wisconsin-Milwaukee Undergraduate Catalog 2014-2015:
[Up to Undergraduate Catalog School/College]
[Schools and Colleges]
[Contents | How to Use This Book | Calendar]
[Admission | Registration | Financial Information | Academic Information]
[Administration | UWM - Endless Possibilities | Academic Opportunities | Campus Resources]
### 101 Introduction to Food Studies. 3 cr. U.
Ways in which food affects health; health "crazes;" systems of food distribution and economics; ethical and environmental issues; food as a symbol for social distinction.

*Prereq: none.*

### 199 Independent Study. 1-3 cr. U.
Independent study under supervision of faculty or academic staff member. For further information, consult prog coordinator.

*Retakable to 3 cr max.*

*Prereq: 2.50 gpa; writ cons instr, prog coord, & assoc dean for SAS.*

### 289 Internship in Food Studies, Lower Division. 1-3 cr. U.
Application of basic principles of food studies in business, organizational, educational, political, or other appropriate setting.

One cr earned for academic work based on 40 hrs in internship. Retakable to 3 cr max.

*Prereq: 2.50 gpa; cons supervising instr.*

### 297 Study Abroad: (Subtitled). 1-6 cr. U.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

*Retakable w/chg in topic.*

*Prereq: acceptance for Study Abroad Prog.*

### 299 Ad Hoc: (Subtitled). 1-6 cr. U.
Course created expressly for offering in a specified enrollment period. Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

*Retakable w/chg in topic.*

*Prereq: none; add'l prereqs may be assigned to specific topic.*

### 489 Internship in Food Studies, Upper Division. 1-3 cr. U.
Application of basic principles of food studies in business, organizational, educational, political, or other appropriate setting.

One cr earned for academic work based on 40 hrs in internship. Retakable to 3 cr max.

*Prereq: jr st; 2.50 gpa; cons supervising instr.*

### 497 Study Abroad: (Subtitled). 1-6 cr. U.
Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

*Retakable w/chg in topic.*

*Prereq: jr st; acceptance for Study Abroad Prog.*

### 499 Ad Hoc: (Subtitled). 1-6 cr. U.
Course created expressly for offering in a specified enrollment period. Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

*Retakable w/chg in topic.*

*Prereq: jr st; add'l prereqs may be assigned to specific topic.*

### 699 Advanced Independent Study. 1-3 cr. U.
Advanced-level independent study work under the supervision of a faculty or academic staff member.

*Retakable w/chg in topic to 3 cr max.*

*Prereq: jr st; 2.50 gpa; writ cons instr, prog*
coord, & assoc dean for SAS.
461 Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. CES 461, Global 461 & FrshWtr 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) & Global 361(C), or cons instr.

461 (effective 09/02/2015) Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.

464 Chemical Hydrogeology. 3 cr. U/G. Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. Lec, lab. Frshwtr 464 & Geo Sci 464 are jointly offered; they count as repeats of one another. Prereq: jr st; Chem 102(P)

496 UROP Apprenticeship, Upper-Level. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior or cone reg in UROP seminar.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

498 Undergraduate Research. 1-3 cr. U. Undergraduate research on faculty-supervised research projects. Retakable to 6 cr max. Prereq: jr st; cons instr.

502 Aquatic Ecosystem Dynamics. 3 cr. U/G. Interdisciplinary, quantitative approach to understanding large lake dynamic processes, including geological formation, hydrology, hydrodynamics, chemistry and the dynamics of plankton and fish communities. Prereq: jr st; 1 sem calculus or algebra; 2 sem Physics, Chem, or Bio Sci; or cons instr.

504 Quantitative Freshwater Analysis. 3 cr. U/G. A fundamental set of tools for the quantitative analysis of environmental data sets, with an emphasis on the calculation of reservoirs, residence times and rates in aquatic systems. Prereq: jr st; 1 sem calculus, Physics, Chem, & Bio Sci; or cons instr.

506 Environmental Health of Freshwater Ecosystems. 3 cr. U/G. The influences of human-induced environmental change on the health of freshwater ecosystems and humans who interact with these systems. Prereq: jr st.
508 Freshwater Engineering. 3 cr. U/G. Engineering principles of freshwater resources, including hydrology, hydraulics, water chemistry, water and wastewater treatment technologies.|Prereq: jr st.

510 Economics, Policy and Management of Water. 3 cr. U/G. The impact of economics, policy and management decisions on our freshwater resources and how science and economics affect these decisions.|Prereq: jr st.

511 Ichthyology. 3 cr. U/G. The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptions to diverse ecological systems.|Bio Sci 511 & FrshWtr 511 are jointly offered; they count as repeats of one another. Prereq: jr st; grade of C or better in Bio Sci 310(P); or cons instr.

512 Freshwater Sciences Practicum: (Subtitled). 2-4 cr. U/G. Diverse opportunities for practical, hands-on experience in the practice of freshwater science with emphasis on team work, problem solving, field work, and dissemination of results.|Retakable w/chg in topic to 9 cr max. Prereq: jr st, Frshwtr 502(P) & 504(P); or cons instr.

522 Aquatic Organic Biogeochemistry. 3 cr. U/G. Fluxes and biogeochemical cycling pathways of dissolved, colloidal and particulate organic matter across interfaces in aquatic systems.|Prereq: jr st & 1 sem Chem; or cons instr.

524 (effective 09/02/2015) Aquatic Isotope Biogeochemistry. 3 cr. U/G. Principles and applications of stable and radioactive isotopes and other biogeochemical tracers in aquatic environments.|Prereq: jr st.


564 Aquaculture Water Chemistry and Microbiology. 3 cr. U/G. Principles of water chemistry & microbial conversion of nutrients; microorganisms that impact fish health; for successful operation of intensive aquaculture operations.|Prereq: jr st; Bio Sci 152(P); Chem 104(P); Bio Sci 101(P) or 383(P).

565 Fish Health. 3 cr. U/G. Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.|Prereq: jr st; Bio Sci 152(P); Chem 104(P).


610 Freshwater Inland Seas. 3 cr. U/G. An oceanographic approach to the study of freshwater inland seas with regard to geology, hydrodynamics, climate, interactions with land, wetlands, streams, and biota interactions.|Prereq: jr st; one upper-division natural science course.

611 Environmental Change and Freshwater Ecosystem Health. 3 cr. U/G. An integrated, holistic approach to the impacts of global climate change on freshwater ecosystems from the population to the molecular levels.|Prereq: jr st; one upper-division natural science course.

621 (Bio Sci 521) Benthic Ecology. 3 cr. U/G. Chemophysical and biological interactions in freshwater and marine systems. Emphasis on invertebrate ecology. 2 hrs lec, 4 hrs lab.|Req'd field work for which fee is assessed. Prereq: sr st & cons instr; or grad st.


695 Independent Study in Freshwater Sciences for Biological Sciences Students. 1-3 cr. U. Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science. Bio Sci 695 & FrshWtr 695 are jointly offered; w/same subject, they count as repeats of one another. Retakable to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course. Prereq: jr st; Bio Sci 310(P), 315(P), 316(P), 325(P), & 383(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

699 Independent Study for Undergraduates. 1-3 cr. U. Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member; requires approved study proposal. Retakable to 6 cr max. Prereq: jr st; cons instr.

This course information produced at 01:00 on 07/30/2015.
GLOBAL Global Studies

101 Introduction to Global Studies I: People and Politics. 3 cr. U. Fundamental aspects of globalization; how economic, political, and cultural globalism affects contemporary societies. Prereq: none.

190 Think Tank Learning Community I: (Subtitled). 1 cr. U. Integration of social, artistic, and cultural forces into global business, economics, politics etc; discussion of case studies with working professionals. Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to sophs, jrs, or srs. Prereq: fr st only.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Selected topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director. Retakable to 6 cr max. Prereq: 2.50 gpa, writ cons instr, progr dir & assoc dean for SAS.

201 Introduction to Global Studies II: Economics and the Environment. 3 cr. U. Link between International trade and environmental change; conditions related to global economy; political impact of environmental change; human dimensions of international trade and environmental change. Prereq: none.

202 Introduction to Global Studies III: Globalization and Technology. 3 cr. U. Globalization and information technology: history of and current trends in global transfer of technology; contemporary issues in information technology; media convergences and divisions. Prereq: none.

289 Internship in Global Studies, Lower Division. 1-6 cr. U. Application of basic principles of global studies in a
business, organizational, educational, political, or other appropriate setting. Min 40 hrs in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: Global 101(P); 2.25 gpa; cons supervising faculty member.

290 Think Tank Learning Community II: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, jrs, or srs. Prereq: soph st only.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

311 Contexts for Global Management. 3 cr. U. How globalization can impact the success or failure of business decisions; how business decisions can impact globalization; management in a global context. Prereq: jr st.

321 The Global City in History. 3 cr. U. Key issues in history of the global city from Mesopotamia to the age of globalization; changing role of urban centers; global dimensions of Milwaukee's history. Prereq: jr st.

351 Language, Media, and Social Practice in Global Communications. 3 cr. U. Explores the impact of global communications on languages and cultures; examines implications of globalization for technologically mediated forms of communication and related social practices. Prereq: jr st.

361 Environment and Sustainability. 3 cr. U/G. Different answers to "what is sustainability?" given by ecological and social thinkers. Prereq: jr st; CES 210(C) or cons instr.

362 System Failure: Globalization and Language Extinction. 3 cr. U/G. Role of globalization in the projected extinction of a large number of the world's languages within the next century. AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another. Prereq: jr st; a course in social science; a course in linguistic anthro; or cons instr.

371 Rethinking Global Security. 3 cr. U. Basic concepts for international security in the age of globalization; sources of security and insecurity from a historical perspective. Prereq: jr st.

390 Think Tank Learning Community III: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 290, 390, & 490. Not open for cr to fr, sophs, or srs. Prereq: jr st only.

421 Cities in the Global Economy. 3 cr. U. How and why globalization leaves different imprints on cities; how cities in turn constantly restructure the form of the global economy. Prereq: jr st.

442 Humanitarianism in Global Perspective. 3 cr. U/G. Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking. Anthro 442 & Global 442 are jointly offered; they count as repeats of one another. Prereq: jr st; a social science course (P).

443 Medicine and Pharmaceuticals in the Global Age. 3 cr. U/G. The practices of medicine and the distribution of pharmaceuticals globally. Anthro 443 & Global 443 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 440(R).

446 The Re-Configuring Global Order. 3 cr. U/G. Contemporary and past global forces re-configuring our world systems and economic and political orders. Prereq: jr st
447 The Global Politics of Human Rights. 3 cr. U/G. Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings. [Anthro 447 & Global 447 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).]

448 Intellectual Property in the Global Information Economy. 3 cr. U/G. Emerging conflicts between the intellectual property rules and new information technologies; all aspects - copyright, patent, trademarks - in global contexts of biotechnology, software, print, digital media, and music industries. [Prereq: jr st.]

451 Access, Security, and Intercultural Contexts in Global Communications. 3 cr. U. Information equity and access in a globalized context, including issues of security, intercultural communication, and current uses of communication technologies. [Prereq: jr st.]

461 (effective 09/02/2015) The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. [CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.]

461 The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. [CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) & Global 361(C), or cons instr.]

471 Strategies for Realizing Security in Global Contexts. 3 cr. U. Present-day strategies of those working to create or effect greater security in a global context. [Prereq: jr st.]

488 Elective Internship in Global Studies. 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa; cons supervising faculty member.

489 Internship in Global Studies, Upper Division. (Subtitled). 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. [Min 40 hours in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa, cons supervising faculty member.]

490 Think Tank Learning Community IV: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. Retakable to 4 cr max w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, sophs, or jrs. Prereq: sr st only.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.


541 (411) Cross-Cultural Management. 3 cr. U. Business cultures around the world; the impact of cultural differences in international management and negotiations. [Bus Adm 541 & Global 541(411) are jointly offered; they count as repeats of one another. Prereq: jr st; Bus Adm 330(P); admis to Bus Adm major or declared Global Studies program.]

551 Global Communications Capstone: Future Trends. 3 cr. U. Global Studies-Global Communications capstone.
Communication challenges that constitute & complicate global experiences; ways to respond in a manner that demonstrates competence as global communicators.

Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

561 Preparing for Sustainable Peacebuilding and Social Change. 3 cr. U/G. Analytical framework for understanding the key social dynamics that affect sustainable social change.

Prereq: jr st; Global 361(P) & 461(P), or cons instr.

571 Global Security Capstone: Future Trends. 3 cr. U. Global Studies-GLOBAL Security capstone. Examination of justice and power broadly defined as they pertain to emerging trends & efforts to address anticipated problems.

Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level.

Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level.

Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

699 Advanced Independent Study. 1-3 cr. U. See Independent Study in current catalog. For further information, consult Global Studies Coordinator.

Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.
101 Introduction to Global Studies I: People and Politics. 3 cr. U. Fundamental aspects of globalization; how economic, political, and cultural globalism affects contemporary societies. Prereq: none.

190 Think Tank Learning Community I: (Subtitled). 1 cr. U. Integration of social, artistic, and cultural forces into global business, economics, politics etc; discussion of case studies with working professionals. Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to sophs, jrs, or srs. Prereq: fr st only.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Selected topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director. Retakable to 6 cr max. Prereq: 2.50 gpa, writ cons instr, progr dir & assoc dean for SAS.

201 Introduction to Global Studies II: Economics and the Environment. 3 cr. U. Link between International trade and environmental change; conditions related to global economy; political impact of environmental change; human dimensions of international trade and environmental change. Prereq: none.

202 Introduction to Global Studies III: Globalization and Technology. 3 cr. U. Globalization and information technology; history of and current trends in global transfer of technology; contemporary issues in information technology; media convergences and divisions. Prereq: none.

289 Internship in Global Studies, Lower Division. 1-6 cr. U. Application of basic principles of global studies in a
business, organizational, educational, political, or other appropriate setting. Min 40 hrs in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: Global 101(P); 2.25 gpa; cons supervising faculty member.

290 Think Tank Learning Community II: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, jrs, or srs. Prereq: soph st only.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

311 Contexts for Global Management. 3 cr. U. How globalization can impact the success or failure of business decisions; how business decisions can impact globalization; management in a global context. Prereq: jr st.

321 The Global City in History. 3 cr. U. Key issues in history of the global city from Mesopotamia to the age of globalization; changing role of urban centers; global dimensions of Milwaukee's history. Prereq: jr st.

351 Language, Media, and Social Practice in Global Communications. 3 cr. U. Explores the impact of global communications on languages and cultures; examines implications of globalization for technologically mediated forms of communication and related social practices. Prereq: jr st.

361 Environment and Sustainability. 3 cr. U/G. Different answers to "what is sustainability?" given by ecological and social thinkers. Prereq: jr st; CES 210(C) or cons instr.

362 System Failure: Globalization and Language Extinction. 3 cr. U/G. Role of globalization in the projected extinction of a large number of the world's languages within the next century. AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another. Prereq: jr st; a course in social science; a course in linguistic anthro; or cons instr.

371 Rethinking Global Security. 3 cr. U. Basic concepts for international security in the age of globalization; sources of security and insecurity from a historical perspective. Prereq: jr st.

390 Think Tank Learning Community III: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 290, 390, & 490. Not open for cr to fr, sophs, or srs. Prereq: jr st only.

421 Cities in the Global Economy. 3 cr. U. How and why globalization leaves different imprints on cities; how cities in turn constantly restructure the form of the global economy. Prereq: jr st.

442 Humanitarianism in Global Perspective. 3 cr. U/G. Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking. Anthro 442 & Global 442 are jointly offered; they count as repeats of one another. Prereq: jr st; a social science course (P).

443 Medicine and Pharmaceuticals in the Global Age. 3 cr. U/G. The practices of medicine and the distribution of pharmaceuticals globally. Anthro 443 & Global 443 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 440(R).

446 The Re-Configuring Global Order. 3 cr. U/G. Contemporary and past global forces re-configuring our world systems and economic and political orders. Prereq: jr st
447 The Global Politics of Human Rights. 3 cr. U/G. Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings. Anthro 447 & Global 447 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

448 Intellectual Property in the Global Information Economy. 3 cr. U/G. Emerging conflicts between the intellectual property rules and new information technologies; all aspects - copyright, patent, trademarks - in global contexts of biotechnology, software, print, digital media, and music industries. Prereq: jr st.

451 Access, Security, and Intercultural Contexts in Global Communications. 3 cr. U. Information equity and access in a globalized context, including issues of security, intercultural communication, and current uses of communication technologies. Prereq: jr st.

461 (effective 09/02/2015) The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.

461 The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) & Global 361(C), or cons instr.

471 Strategies for Realizing Security in Global Contexts. 3 cr. U. Present-day strategies of those working to create or effect greater security in a global context. Prereq: jr st.

488 Elective Internship in Global Studies. 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa; cons supervising faculty member.

489 Internship in Global Studies, Upper Division. (Subtitled). 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. Min 40 hours in internship req’d for 1 cr. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa, cons supervising faculty member.

490 Think Tank Learning Community IV: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. Retakable to 4 cr max w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, sophs, or jrs. Prereq: sr st only.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.


514 (411) Cross-Cultural Management. 3 cr. U. Business cultures around the world; the impact of cultural differences in international management and negotiations. Bus Adm 514 & Global 514(411) are jointly offered; they count as repeats of one another. Prereq: jr st; Bus Adm 330(P); admis to Bus Adm major or declared Global Studies program.

551 Global Communications Capstone: Future Trends. 3 cr. U. Global Studies-Global Communications capstone.
Communication challenges that constitute & complicate global experiences; ways to respond in a manner that demonstrates competence as global communicators. Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

561 Preparing for Sustainable Peacebuilding and Social Change. 3 cr. U/G. Analytical framework for understanding the key social dynamics that affect sustainable social change. Prereq: jr st; Global 361(P) & 461(P), or cons instr.

571 Global Security Capstone: Future Trends. 3 cr. U. Global Studies-Global Security capstone. Examination of justice and power broadly defined as they pertain to emerging trends & efforts to address anticipated problems. Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level. Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level. Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

699 Advanced Independent Study. 1-3 cr. U. See Independent Study in current catalog. For further information, consult Global Studies Coordinator. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.
GLOBAL Global Studies

101 Introduction to Global Studies I: People and Politics. 3 cr. U. Fundamental aspects of globalization; how economic, political, and cultural globalism affects contemporary societies. Prereq: none.

190 Think Tank Learning Community I: (Subtitled). 1 cr. U. Integration of social, artistic, and cultural forces into global business, economics, politics etc; discussion of case studies with working professionals. Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to sophs, jrs, or srs. Prereq: fr st only.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

194 First-Year Seminar: (Subtitled). 3 cr. U. Selected topics announced in Schedule of Classes each time course is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director. Retakable to 6 cr max. Prereq: 2.50 gpa, writ cons instr, progr dir & assoc dean for SAS.

201 Introduction to Global Studies II: Economics and the Environment. 3 cr. U. Link between International trade and environmental change; conditions related to global economy; political impact of environmental change; human dimensions of international trade and environmental change. Prereq: none.

202 Introduction to Global Studies III: Globalization and Technology. 3 cr. U. Globalization and information technology: history of and current trends in global transfer of technology; contemporary issues in information technology; media convergences and divisions. Prereq: none.
289 Internship in Global Studies, Lower Division. 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. Min 40 hrs in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: Global 101(P); 2.25 gpa; cons supervising faculty member.

290 Think Tank Learning Community II: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, jrs, or srs. Prereq: soph st only.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

311 Contexts for Global Management. 3 cr. U. How globalization can impact the success or failure of business decisions; how business decisions can impact globalization; management in a global context. Prereq: jr st.

321 The Global City in History. 3 cr. U. Key issues in history of the global city from Mesopotamia to the age of globalization; changing role of urban centers; global dimensions of Milwaukee's history. Prereq: jr st.

351 Language, Media, and Social Practice in Global Communications. 3 cr. U. Explores the impact of global communications on languages and cultures; examines implications of globalization for technologically mediated forms of communication and related social practices. Prereq: jr st.

361 Environment and Sustainability. 3 cr. U/G. Different answers to "what is sustainability?" given by ecological and social thinkers. Prereq: jr st; CES 210(C) or cons instr.

362 System Failure: Globalization and Language Extinction. 3 cr. U/G. Role of globalization in the projected extinction of a large number of the world's languages within the next century. AIS 362, Anthro 362, & Global 362 are jointly offered; they count as repeats of one another. Prereq: jr st; a course in social science; a course in linguistic anthro; or cons instr.

371 Rethinking Global Security. 3 cr. U. Basic concepts for international security in the age of globalization; sources of security and insecurity from a historical perspective. Prereq: jr st.

390 Think Tank Learning Community III: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. Retakable once w/chg in topic. Students may earn a max of 8 cr in the combination of Global 290, 390, & 490. Not open for cr to fr, sophs, or srs. Prereq: jr st only.

421 Cities in the Global Economy. 3 cr. U. How and why globalization leaves different imprints on cities; how cities in turn constantly restructure the form of the global economy. Prereq: jr st.

442 Humanitarianism in Global Perspective. 3 cr. U/G. Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking. Anthro 442 & Global 442 are jointly offered; they count as repeats of one another. Prereq: jr st; a social science course (P).

443 Medicine and Pharmaceuticals in the Global Age. 3 cr. U/G. The practices of medicine and the distribution of pharmaceuticals globally. Anthro 443 & Global 443 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 440(R).

446 The Re-Configuring Global Order. 3 cr. U/G. Contemporary and past global forces re-configuring our world
447 The Global Politics of Human Rights. 3 cr. U/G. Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings. Anthro 447 & Global 447 are jointly offered; they count as repeats of one another. Prereq: jr st; Anthro 102(R).

448 Intellectual Property in the Global Information Economy. 3 cr. U/G. Emerging conflicts between the intellectual property rules and new information technologies; all aspects - copyright, patent, trademarks - in global contexts of biotechnology, software, print, digital media, and music industries. Prereq: jr st.

451 Access, Security, and Intercultural Contexts in Global Communications. 3 cr. U. Information equity and access in a globalized context, including issues of security, intercultural communication, and current uses of communication technologies. Prereq: jr st.

461 (effective 09/02/2015) The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) or cons instr.

461 The Politics and Policy of Sustainability. 3 cr. U/G. Principles of environmental policy, governance, and management for global sustainability. CES 461, FrshWtr 461, & Global 461 are jointly offered; they count as repeats of one another. Prereq: jr st; CES 210(P) & Global 361(C), or cons instr.

471 Strategies for Realizing Security in Global Contexts. 3 cr. U. Present-day strategies of those working to create or effect greater security in a global context. Prereq: jr st.

488 Elective Internship in Global Studies. 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa; cons supervising faculty member.

489 Internship in Global Studies, Upper Division. (Subtitled). 1-6 cr. U. Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting. Min 40 hours in internship req'd for 1 cr. Retakable to 6 cr max. Prereq: jr st; 6 cr Global 300-level or above; 2.5 gpa, cons supervising faculty member.

490 Think Tank Learning Community IV: (Subtitled). 1 cr. U. Application of concepts of globalization to case studies presented by working professionals. Retakable to 4 cr max w/chg in topic. Students may earn a max of 8 cr in the combination of Global 190, 290, 390, & 490. Not open for cr to fr, sophs, or jrs. Prereq: sr st only.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.


541 (411) Cross-Cultural Management. 3 cr. U. Business cultures around the world; the impact of cultural differences in international management and negotiations. Bus Adm 541 & Global 541(411) are jointly offered; they count as repeats of one another. Prereq: jr st; Bus Adm 330(P); admis to Bus Adm major or declared Global Studies program.
551 Global Communications Capstone: Future Trends. 3 cr. U. Global Studies-Global Communications capstone. Communication challenges that constitute & complicate global experiences; ways to respond in a manner that demonstrates competence as global communicators.|Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

561 Preparing for Sustainable Peacebuilding and Social Change. 3 cr. U/G. Analytical framework for understanding the key social dynamics that affect sustainable social change.|Prereq: jr st; Global 361(P) & 461(P), or cons instr.

571 Global Security Capstone: Future Trends. 3 cr. U. Global Studies-Global Security capstone. Examination of justice and power broadly defined as they pertain to emerging trends & efforts to address anticipated problems.|Counts as a repeat of Global 500 w/same topic. Prereq: jr st; declared Global Studies major; or cons instr.

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level.|Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying or interning abroad to receive course credit at appropriate level.|Retakable with change in topic. Prereq: jr st; Global Studies or MSP advisor approval.

699 Advanced Independent Study. 1-3 cr. U. See Independent Study in current catalog. For further information, consult Global Studies Coordinator. |Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.
HMONG Hmong Studies

105 First-Semester Hmong. 3 cr. U. Beginning Hmong for students with no previous knowledge of the language. No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 105 & Linguis 105 are jointly offered; they count as repeats of one another. Prereq: none.

106 Second-Semester Hmong. 3 cr. U. Continuation of Hmong 105. No cr for students w/cr in Hmong 107 or Hmong 108. Hmong 106 & Linguis 106 are jointly offered; they count as repeats of one another. Prereq: Hmong 105/Linguis 105(P).


192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study: (Subtitled). 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director. Students must submit a study proposal. Retakable to 6 cr max. Prereq: 2.50 gpa, writ cons instr, prog dir, & assoc dean for SAS.

265 Hmong Americans: History, Culture, and Contemporary Life. 3 cr. U. Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America. Ethnic 265 & Hmong 265 are jointly offered; they count as repeats of one another. Prereq: none.

289 Internship in Hmong Studies, Lower Division: (Subtitled). 1-6 cr. U. Application of basic principles of Hmong Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa, cons supervising faculty member.
296 UROP Apprenticeship: (Subtitled). 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only program dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

489 Internship in Hmong Studies, Upper Division. 1-6 cr. U. Application of basic principles of Hmong Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa, cons supervising faculty member.

496 Advanced UROP Apprenticeship: (Subtitled). 1-3 cr. U. Advanced undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior UROP apprenticeship or equiv rsrch experience.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only program dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study: (Subtitled). 1-3 cr. U. Advanced level independent work under supervision of a Hmong Studies faculty or academic staff member. Students must submit a study proposal. Retakable w/chg in topic. Prereq: jr st; 2.50 GPA; cons supervising instr, program coord, & associate dean of SAS

This course information produced at 01:00 on 07/30/2015.
HS Health Sciences

101 (HCA 101) Introduction to Health and Disease. 2 cr. U. A survey of health promotion and disease prevention including fitness, nutrition, disease transmission, mental health, drug use, and other current health-related topics. |Prereq: none.

102 Health Care Delivery in the United States. 3 cr. U. An introduction to health care delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts.

102 (HCA 102) Health Care Delivery in the United States. 3 cr. U. An introduction to health care delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts. |Prereq: none.

105 (HCA 105) Survey of the Health Professions. 3 cr. U. An introduction to health professions, their work settings and roles on the health care team. Other topics include: patient-professional communication, patient characteristics, medical terminology. |Counts as repeat of HS 105X. Prereq: none.

105 Survey of the Health Professions. 3 cr. U. An introduction to health professions, their work settings and roles on the health care team. Other topics include: patient-professional communication, patient characteristics, medical terminology. |Counts as repeat of HS 105. Prereq: none.

222 (HCA 222) Language of Medicine. 3 cr. U. Medical terms used in oral and written communication; reviews terminology by body system with emphasis on application. |Prereq: none.

224 (HCA 224) Introduction to Microcomputers for Allied Health Professions. 3 cr. U. Healthcare focused introduction to microcomputers as tools for information management, including system architecture, process and ethical concepts. Incorporates training in office application software. |Prereq: preprofessional or professional in Health Sciences or HCA minor or HCI cert.

250 (HCA 250) Allied Health Information Methods. 2 cr. U. Techniques and processes used by allied health personnel to translate thought and behavior into an acceptable style and format for documentation of activities. |Prereq: soph st; grade of C or better in English 102(P) or score at level 4 on EPT.

251 (HCA 251) Health Documentation. 1 cr. U. Appropriate health documentation techniques will be addressed.
including the medical; legal and reimbursement issues of patient assessment, problem identification, and patient care plans.|Prereq: none.

311 (HCA 311) Law for Health Care Consumers and Professionals. 3 cr. U. An introduction to the law as it relates to health care. Topics include contracts, torts, damages, negligence, malpractice, litigation and trial proceedings.|Prereq: jr st or cons instr.

620 Environmental Health. 3 cr. U/G. An overview of the field of environmental and occupational health is presented, including physical, chemical and biological hazards.|Prereq: jr st.
101 (Linguis 141) First Semester Japanese. 5 cr. U. Beginning Japanese for students with no previous knowledge of the language. | Prereq: none.

102 (Linguis 142) Second Semester Japanese. 5 cr. U. Continuation of Japan 101 (Linguis 141). | Prereq: Japan 101 (Linguis 141) (NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

110 Japanese Popular Culture. 3 cr. U. Elements of popular culture that have come to define modern-day Japan. In English. | Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). | Prereq: none.

197 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enable students studying language abroad to receive course credit at appropriate level. | Retakable w/ change in topic. | Prereq: acceptance in Study Abroad Prog.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. | Retakable to 6 cr max. | Prereq: 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

200 Japanese Culture and Its Effect on Language. 3 cr. U. Through various forms of media, examination of different aspects of Japanese culture and how it impacts language. | No cr for students w/cr in Linguis 200 with similar title. | Prereq: none.

201 (Linguis 241) Third-Semester Japanese. 5 cr. U. Continuation of Japan 102 (Linguis 142), with some emphasis on the practice of Japanese writing. | Prereq: Japan 102 (Linguis 142) (P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

202 (Linguis 242) Fourth-Semester Japanese. 5 cr. U. Continuation of Japan 201 (Linguis 241), with some emphasis on the practice of Japanese writing. | Prereq: Japan 201 (Linguis 241) (P) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).

220 Introduction to Japanese Food Studies. 3 cr. U. Cultural, historical, geographic, and sociological aspects of
### Japanese Food Culture as Related to Everyday Japanese Culinary Practices

#### 277 Japanese Discussion Section: (Subtitled)
1 or 2 cr. U. Discussion in Japanese, designed to broaden perspectives, improve language skills. Offered in conjunction with courses in other disciplines (Anthro, Hist, Pol Sci, etc.). Prereq: Japan 202 (Linguis 242) (P) or cons instr. Retakable w/chg in topic to 6 cr max. Prereq: none.

#### 289 Internship in Japanese, Lower Division
1-6 cr. U. Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa; cons supervising faculty member.

#### 296 UROP Apprenticeship
1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One cr for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

#### 297 Study Abroad: (Subtitled)
1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

#### 299 Ad Hoc: (Subtitled)
1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

#### 301 (Linguis 341) Fifth Semester Japanese
4 cr. U. Continuation of Japan 202 (Linguis 242). Prereq: Japan 202 (Linguis 242) (P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

#### 302 (Linguis 342) Sixth Semester Japanese
4 cr. U. Continuation of Japan 301 (Linguis 341). Prereq: Japan 301 (Linguis 341) (P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

#### 310 Enhanced Knowledge & Skills for the Japanese Language Proficiency Test
3 cr. U. Preparation for levels N2 and N3 of the Japanese Language Proficiency Exam. Prereq: Japan 202 (Linguis 242) (P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro crs).

#### 321 Analyzing Hollywood-Japan Film Remakes

#### 330 Japanese Language and Culture

#### 331 Reading Japanese Short Stories

#### 361 Translating Japanese Media
3 cr. U. Development of the vocabulary, grammar knowledge, translating skills, and cultural sensitivities necessary to produce viable translations. Generates L&S credits for demonstrated equivalent preparation (14 retro crs). Prereq: Japan 202 (P).

#### 397 Study Abroad: (Subtitled)
1-12 cr. U. Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially-prepared program coursework.

#### 401 Seventh Semester Japanese
4 cr. U. Continuation of Japan 302. Prereq: Japan 302 (P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro crs).

416 Introduction to Translation: Japanese to English. 3 cr. U. Basic skills for translating texts from Japanese to English; focus on articles and documents encountered in business, banking, legal, medical, and academic contexts. Prereq: jr st; grade of B or better in 300-level or above Japanese language course.

441 Business Japanese I. 3 cr. U. Language and cultural studies that develop the practical knowledge and skills needed for doing business with Japan. Prereq: Japan 302(P).

489 Internship in Japanese, Upper Division. 1-6 cr. U. Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Research and Research Writing in Japanese. 3 cr. U. Capstone course for Japanese major. Students conduct research in Japanese and produce a thesis and presentation based on that research. Not open to students who have completed Japanese capstone req under FLL 499 or Japan 699. Prereq: Japan 301(P) or cons instr.

516 Seminar in Advanced Translation: Japanese to English. 3 cr. U. Translation of ideas and conceptual knowledge in subject areas that include economics, law, society, culture, and history. Prereq: Japan 416(P).

597 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

697 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enable students studying language abroad to receive course credit at appropriate level. Retakable w/ change in topic. Prereq: jr st; acceptance in Study Abroad Prog.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Japanese faculty or academic staff member. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.
101 Jewish Culture in America: History, Literature, Film. 3 cr. U. Cross-disciplinary study of modern Jewish culture in America, with particular attention given to Jewish-American literature, film, and history of the nineteenth and twentieth centuries.|Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Timetable each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific social science topics are announced in the Timetable each time the class is offered.|Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.|Retakable to 6 cr max. Prereq: 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

247 Topics in Jewish Literature, Art, and Culture: (Subtitled). 3 cr. U. Introduction to various aspects of modern Jewish literature, art, and culture; possible topics include Jewish music, Jewish American literature, Holocaust literature, and Jewish art.|Retakable w/chg in topic to 9 cr max. Prereq: none.

261 Representing the Holocaust in Words and Images. 3 cr. U. Holocaust literature and film; issues of representation and memory. Texts include memoirs, graphic novels, fiction, and documentaries.|No cr for students w/cr in Hebr St 238 with same topic. Hebr St 261 & Jewish 261 are jointly offered; they count as repeats of one another. Prereq: none.

289 Internship in Jewish Studies, Lower Division. 1-6 cr. U. Application of basic principles of Jewish studies in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: intro course in Jewish; 2.50 gpa; cons supervising faculty member.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.
299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

321 (Hebr St 321) The Holocaust and the Politics of Memory. 3 cr. U. Exploration of the political, sociological, and cultural motivations behind public debates about the Holocaust in post-WWII Germany, Israel, and France.|Prereq: jr st.

328 The Arab-Israeli Conflict. 3 cr. U/G. Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.|Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic. Prereq: jr st.

350 Global Jewish Film and Television: (Subtitled). 3 cr. U. Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism.|FilmStd 350 & Jewish 350 are jointly offered; with the same subtitle, they count as repeats of one another. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

358 The Jews of Modern Europe: History and Culture. 3 cr. U/G. History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.|Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another. Prereq: jr st.

368 (268) Jewish and Christian Responses to the Holocaust. 3 cr. U. Jewish and Christian answers to theological questions raised by the Holocaust, such as "Where was God?" Focus on interfaith dialogue and understanding.|No cr for students w/cr in Hebr St 254 with same topic. Hebr St 368(268) & Jewish 368(268) are jointly offered; they count as repeats of one another. Prereq: jr st.

379 Introduction to Jewish History. 3 cr. U. Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era.|Hist 379 & Jewish 379 are jointly offered; they count as repeats of one another. Prereq: jr st; satisfaction of GER English Composition competency req.

421 Introduction to Yiddish Literature: (Subtitled). 3 cr. U. Development of Yiddish literature from medieval times to the twentieth century; close readings of works of major writers.|In English. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

449 (Hebr St 449) Modern Jewish Thought. 3 cr. U. Historical development of Jewish philosophical thought since the nineteenth century; close reading of influential thinkers of modern and contemporary times.|No cr for students w/cr in Hebr St 499 w/same title. Prereq: jr st.

489 Internship in Jewish Studies, Upper Division. 1-6 cr. U. Application of basic principles of Jewish studies in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 300-level or above Jewish course; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

500 Seminar in Jewish Studies: (Subtitled). 3 cr. U. Seminar on a particular topic in Jewish Studies.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; a Hebr St or Jewish course; or cons instr.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Jewish
studies faculty or academic staff member. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.
KOREAN Korean

101 First-Semester Korean. 5 cr. U. Beginning Korean for students with no previous knowledge of the language. | Prereq: none.

102 Second-Semester Korean. 5 cr. U. Continuation of Korean 101. | Prereq: Korean 101(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). | Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. | Retakable to 6 cr max. | Prereq: 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

201 Third Semester Korean. 5 cr. U. Continuation of Korean 102. | Prereq: Korean 102(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

202 Fourth Semester Korean. 5 cr. U. Continuation of Korean 201. | Prereq: Korean 201(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).

289 Internship in Korean, Lower Division. 1-6 cr. U. Application of basic principles of Korean in business, organizational, educational, political, or other appropriate setting. | One cr earned for academic work based on 40 hrs in internship. | Retakable to 6 cr max. | Prereq: 2.50 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. | One cr for 45 hrs research. | Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. | Prereq: acceptance to UROP; prior or conc regin UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. | Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires
only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

**489 Internship in Korean, Upper Division. 1-6 cr. U.** Application of basic principles of Korean in business, organizational, educational, political, or other appropriate setting.|One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

**497 Study Abroad: (Subtitled). 1-12 cr. U.** Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

**499 Ad Hoc: (Subtitled). 1-6 cr. U.** Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

**699 Advanced Independent Study. 1-3 cr. U.** Advanced level independent work under the supervision of a Korean faculty or academic staff member.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

*This course information produced at 01:00 on 07/30/2015.*
101 (Spanish 173) Introduction to Latin American and Caribbean Studies. 3 cr. U. Lectures and discussion of a range of topics relating to Latin America and the Caribbean that lead to an understanding of the cultures of these areas. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). Prereq: none.

199 Independent Study: (Subtitled). 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program director. Retakable to 6 cr max. Prereq: 2.50 gpa, writ cons instr, progr dir, & assoc dean for SAS.

201 Special Topics in Latin American and Caribbean Studies: (Subtitled). 3 cr. U. Topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas. Retakable w/chg in topic to 9 cr max. Prereq: none.

289 Internship in Latin American/Caribbean Studies, Lower Division. 1-6 cr. U. Application of basic principles of history in a business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa, cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combinations of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires
301 Advanced Topics in Latin American and Caribbean Studies: (Subtitled). 3 cr. U. Advanced-level topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas. Retakable w/chg in topic to 9 cr max. Prereq: jr st.

326 Brazilian Politics and Society. 3 cr. U. Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social environment. Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another. Prereq: jr st.

489 Internship in Latin American/Caribbean Studies, Upper Division. 1-6 cr. U. Application of basic principles of Latin American/Caribbean studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

496 Advanced UROP Apprenticeship. 1-3 cr. U. Advanced undergraduate research participation in a project developed with a supervising member of the faculty of staff. One cr for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior UROP apprenticeship or equiv rsrch experience.

497 Study Abroad: (Subtitled). 1-12 cr. U/G. Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only progr dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of a Latin American/Caribbean studies faculty or academic staff member. Retakable w/chg in topic to 9 cr max in any combination of LACS/Latino 698, LACS 699, & Latino 699. Prereq: jr st; 2.50 gpa; writ cons instr, progr dir, & assoc dean for SAS.
LACUSL Lat Am, Caribb, & US Latino St

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult the program coordinator. Retakable to 6 cr max. Prereq: 2.50 gpa; writ cons instr, prog coord, & asst dean for SAS.

200 (LACS 200) Special Topics in Latin American, Caribbean, and U.S. Latino Studies: (Subtitled). 3 cr. U. Various topics that integrate the experiences of U.S. Latino populations with their countries of origin. Retakable w/chg in topic to 9 cr max. Counts as repeat of LACS/Latino 200 w/same topic. Prereq: none.

289 Internship in Latin American, Caribbean, and U.S. Latino Studies, Lower Div. 1-6 cr. U. Application of basic principles of Latin American, Caribbean, and U.S. Latino studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: 2.50 gpa, cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: none; add'l prereqs may be assigned to specific topic.

300 (LACS 300) Advanced Topics in Latin American, Caribbean, and U.S. Latino Studies: (Subtitled). 3 cr. U. Advanced study of topics that integrate the experiences of U.S. Latino populations with their countries of origin. Retakable w/chg in topic to 9 cr max. Counts as repeat of LACS/Latino 300 w/same topic. Prereq: jr st.

324 (LACS 324) Theatre in the Americas: Latin American, Caribbean, and Latina/o Theatre. 3 cr. U. Survey of Latin American, Caribbean, and U.S. Latina/o theatre and performance. History and cultures of the Americas that shape these productions. Counts as repeat of LACS or Latino 324. LACUSL 324 & Theatre 324 are jointly-offered; they count as repeats of one another. Prereq: jr st.
489 Internship in Latin American, Caribbean, and US Latino Studies, Upper Level. 1 cr. U. Application of basic principles of Latin American, Caribbean, and U.S. Latino studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; written cons supervising prof.

496 UROP Apprenticeship, Upper Level. 1-3 cr. U. Advanced-level undergraduate research in a project developed with a supervising member of the faculty or academic staff. One credit for 45 hours research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Prereq: jr st; acceptance to UROP; prior on conc reg in UROP seminar.

497 Study Abroad: (Subtitled). 1 cr. U. Designed to enroll students in UW-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l semester. Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

680 (LACS 680) LACUSL Senior Research Project. 3 cr. U. Independent capstone project for the LACUSL major, integrating Latin@ and Latin American/Caribbean perspectives on a topic selected by the student in consultation with their faculty mentor. Prereq: sr st; declared LACUSL major.

699 Advanced Independent Study. 1-3 cr. U. Advanced independent work under supervision of faculty or academic staff member. For further information, consult the program coordinator. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; written cons instr, prog coord, & asst dean for SAS.

This course information produced at 01:00 on 07/30/2015.

102 Military Physical Training and Conditioning II. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 101(P) or cons instr.

110 Leadership and Personal Development. 1 cr. U. Personal challenges and competencies that are critical for effective leadership and the structure of the ROTC.|Prereq: none.

120 Introduction to Leadership. 1 cr. U. Issues and competencies that are central to a commissioned officer's responsibilities.|Prereq: Mil Sci 110(P) or cons instr.

201 Military Physical Training and Conditioning III. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 102(P) or cons instr.

202 Military Physical Training and Conditioning IV. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 201(P) or cons instr.

210 Foundations of Leadership. 2 cr. U. The dimensions of creative and innovative tactical leadership strategies and styles.|Prereq: Mil Sci 120(P) or cons instr.

220 Foundations of Tactical Leadership. 2 cr. U. The challenges of leading teams in the complex operational environment.|Prereq: Mil Sci 210(P) or cons instr.

301 Military Physical Training and Conditioning V. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 202(P) or cons instr.

302 Military Physical Training and Conditioning VI. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 301(P) or cons instr.

310 Adaptive Team Leadership. 3 cr. U. The study, practice and application of Army leadership in team or squad situations.|Prereq: Mil Sci 220(P) or cons instr.
320 Applied Team Leadership. 3 cr. U. The study and practice of small unit tactics at the team and squad level.|Prereq: Mil Sci 310(P) or cons instr.

401 Military Physical Training and Conditioning VII. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 302(P) or cons instr.

402 Military Physical Training and Conditioning VIII. 1 cr. U. Goal-oriented, small unit approach to physical conditioning and military drill.|Prereq: Mil Sci 401(P) or cons instr.

410 Adaptive Leadership. 2 cr. U. Methods of training, mentoring and evaluating subordinate personnel.|Prereq: Mil Sci 320(P) or cons instr.

420 Leadership in a Complex World. 2 cr. U. Differences in customs and courtesies, military law, principles of war, COIN, and Rules of Engagement in the face of persistent conflict.|Prereq: Mil Sci 410(P) or cons instr.

This course information produced at 01:00 on 07/30/2015.
101 Introduction to the Nutrition Profession. 1 cr. U. Introduction to the nutrition and dietetics profession including history, current practice, emerging trends, professional ethics, scope/standards of practice, education requirements, and areas of practice.|Prereq: none.

110 Introduction to Food Principles & Preparation. 3 cr. U. Introduction to the basic physical and chemical properties of foods, interaction and reaction of food in food preparation procedures, evaluation of prepared food products.|Prereq: none.

210 Food Science. 3 cr. U. This course will explore the scientific study and effect of chemical and physical modifications to food (taste, mouth feel, texture, color, nutrient value, etc.).|Prereq: grade of C or better in Nutr 110(P).

235 Introduction to Nutrition for the Health Professions. 3 cr. U. A broad, science-based, practical knowledge of nutritional science and metabolism to prepare for health and nutrition professions.|Counts as repeat of Kin 290 with same topic. Prereq: Chem 100(P), Chem 101(P), or Chem 102(P); & Bio Sci 202(C).

240 Nutrition for Exercise and Wellness. 3 cr. U. The role of nutrition in supporting health, wellness, and exercise on a national, state, and community level.|Counts as repeat of Kin 290 with same topic. Prereq: grade of C or better in Nutr 235(P) or BMS 232(P).

245 Life Cycle Nutrition. 3 cr. U. Nutrition principles applied to human development in various stages of the life cycle: maternal and infant, childhood, adolescent, adult, and elderly.|Counts as a repeat of BMS 290 with same topic. Prereq: grade of C or better in BMS 232(P) or Nutr 235(P).

310 Introduction to Food Service Systems. 3 cr. U. Introduction to food service systems to efficiently and effectively use resources in the production and service of nutritious, safe, and high quality food.|Prereq: grade of C or better in Nutr 210(P); cons instr.

345 (effective 09/02/2015) Food and Culture. 3 cr. U. Review health status, culture, food, and nutritional habits of key ethnic and racial groups in the United States; to deliver culturally competent care.|Prereq: Grade of C or better in Nutr 245(P); Anthro 150(P); cons instr.

350 Nutrition Communication and Education. 3 cr. U. Nutrition education methods to educate diverse groups of people.|Prereq: Commun 103(P); Nutr 240(P) or 245(P).
355 Modifying Nutrition and Eating Behavior. 2 cr. U. Introduction to the basic components of nutritional assessment, counseling techniques and educational processes applied to individual or group client-centered intervention. [Prereq: Nutr 245(P); Psych 101(P) or Sociol 101(P), or Anthro 102(P)].

410 (effective 09/02/2015) Food Systems Management. 3 cr. U. Principles of institutional menu development and therapeutic diet modifications; food service facility design; personnel management and leadership theories; menu marketing and merchandising. [Prereq: grade of C or better in Nutr 310(P); cons instr].

430 Advanced Nutrition and Metabolism. 3 cr. U/G. In-depth examination of biochemical processes involved in the interaction between nutrients and the human body including the requirements and metabolism of macro- and micronutrients. [Prereq: jr st; grade of C or better in BMS 232(P) or Nutr 235(P); Chem 103(P) or 501(P); Bio Sci 203(P)].

435 Nutrition and Disease I. 3 cr. U. Principles of Medical Nutrition Therapy for diabetes, cardiovascular disease, and certain cancers. [Prereq: Nutr 430(P); Chem 101(P) or 341(P)].

436 (effective 01/25/2016) Nutrition and Disease II. 3 cr. U. Principles of Medical Nutrition Therapy for renal, gastrointestinal, and liver disease states as well as metabolic diseases, AIDS, and certain cancers. [Prereq: Nutr 435(P); cons instr]

450 (effective 09/02/2015) Interpreting and Conducting Research for Nutrition Professionals. 2 cr. U. An interactive introduction to research methodology; and the interpretation and application of scientific literature specific to nutritional sciences and dietetics. [Prereq: Kin 270(P); Nutr 355(P)].

470 Nutrition Internship/Project. 4 cr. U. Critical hands-on field experience or high-level project in the area of nutrition. [Prereq: sr st & admis to Nutr major; grade of C or better in Nutr 435(P); cons internship coord].

481 (effective 01/25/2016) Clinical Dietetics Supervised Practice I. 2 cr. U. Guided by a preceptor, students will be introduced to the patient care process, to assess and identify nutrition-related problems; develop care plans and patient goals. [Prereq: Nutr 430(C); admis to the Coordinated Prog in Dietetics]

482 (effective 09/02/2016) Clinical Dietetics Supervised Practice II. 3 cr. U. Guided by a preceptor, students gain hands-on experience with patient care; assessing and identifying nutrition-related problems as they relate to specific diseases or conditions. [Prereq: Nutr 435(C) & 481(P)].

483 (effective 01/25/2016) Clinical Dietetics Supervised Practice III. 2 cr. U. Guided by a preceptor, students gain hands-on experience with patient care; assessing and identifying more in-depth nutrition-related problems related to specific diseases or conditions. [Prereq: Nutr 436(C) & 482(P)].

485 Community Nutrition Supervised Practice II. 3 cr. U. Guided by a preceptor, students gain hands-on experience delivering nutrition care in community settings; enhancement of skills for disseminating information to individuals and groups. [Prereq: Nutr 484(P)].

486 Food Service Systems Supervised Practice I. 2 cr. U. Guided by a preceptor students will apply the food service systems knowledge gained in the classroom to a real-life food service operation through supervised practice. [Prereq: grade of C or better in Nutr 310(P)].

487 (effective 01/25/2016) Food Service Systems Supervised Practice II. 3 cr. U. Guided by a preceptor students will apply advanced food service systems knowledge gained in the classroom to a real-life food service operation through in-depth supervised practice. [Prereq: grade of C or better in Nutr 486(P)].

488 (effective 09/02/2016) Dietetics Research Supervised Practice. 1 cr. U. Guided by a preceptor, students will gain hands-on experience with conducting a research project (full or in part), analyzing data, and interpreting the
489 (effective 01/25/2016) Community Nutrition Supervised Practice III. 2 cr. U. Guided by a preceptor, students gain hands-on experience delivering nutrition care in community settings; mastery of skills for disseminating information to individuals and groups. Prereq: Nutr 485(P) & 555(C).

550 Sports Nutrition. 3 cr. U/G. The integration and application of nutrition and exercise science principles related to physical health and sport. Counts as repeat of BMS/Kin 590 with same topic. Prereq: jr st; grade of C or better in Nutr 235(P) or BMS 232(P); Bio Sci 203(P).

555 Public Health Nutrition and Food Politics. 3 cr. U/G. This course highlights the role of nutrition in public health programs and services. Counts as repeat of BMS(Kin) 290 with same topic. Prereq: jr st; grade of C or better in Nutr 235(P) or BMS 232(P); Bio Sci 203(P).
101 Introduction to Public Health. 3 cr. U. Introduction to history, science and philosophy of Public Health including scientific research, policy development and health education. | Prereq: none.


297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. | Prereq: acceptance for Study Abroad Prog.

303 Climate Change, the Environment and Human Health. 3 cr. U. Acquire knowledge about and be able to identify ways in which climate change adversely affects human health globally, nationally and locally. | Prereq: One of the following: PH 101(P), CES 210(P), BioSci 150(P), Global 201(P), GeoSci 100(P), Geog 120(P), or Geog 125(P); or cons instr.

319 Introduction to Health Disparities. 3 cr. U. An introduction to health inequalities as they pertain to racial and ethnic populations in the U.S. and an overview of key determinants of population health. | Prereq: none.


699 Independent Study. 1-3 cr. U. Independent study on a topic not available as a regular course. | Prereq: cons instr.
PUB ADM Public Administration

243 Public Administration. 3 cr. U. The means used to implement political values with emphasis on problems of administration in modern government. Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another. Prereq: none.

400 Ethics and Responsibility in Public Administration. 3 cr. U/G. How public administrators make ethically-sound decisions; moral and value systems that shape public administration; temptations that can cause officials to stray from ethical standards. Counts as repeat of Pol Sci 387 w/"Administrative Ethics & Responsibility" subtitle. Prereq: jr st.

452 Administrative Law. 3 cr. U/G. An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory investigatory, and enforcement activities of administrative agencies. American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another. Prereq: jr st.

630 (Pol Sci 630) Budgeting and Finance in the Public Sector. 3 cr. U/G. Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing. Jointly-offered w/ & counts as repeat of UrbPlan 630. Prereq: sr st or cons instr.

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RELIGST Religious Studies

101 Introduction to World Religions. 3 cr. U. Basic concepts of world religions; broad overview of various religious traditions in ancient and modern configurations. Prereq: none.

106 (effective 09/02/2015) Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy. 3 cr. U. Anishinaabe philosophical and religious beliefs incorporating botanical knowledge. AIS 106 & ReligSt 106 are jointly offered; they count as repeats of one another. Prereq: none.

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194). Prereq: none.

193 First-Year Seminar: (Subtitled). 3 cr. U. Specific social science topics are announced in the Schedule of Classes each time the class is offered. Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194). Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. Retakable to 6 cr max. Prereq: 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

225 Society and Religion in the Ancient Mediterranean and Near East. 3 cr. U. Using historical evidence (written texts, material remains) to examine religion and social organization in ancient Mesopotamia, Egypt, Israel/Canaan, Minoan Crete, Mycenaean and archaic Greece. Prereq: none.

250 Selected Topics in Religious Studies: (Subtitled). 3 cr. U. Focus on a particular religion or religious issue. Retakable w/chg in topic to 9 cr max. Prereq: none.

289 Internship in Religious Studies, Lower Division. 1-6 cr. U. Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hours research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. Prereq: acceptance to UROP; prior or conc reg in UROP seminar.
297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: acceptance for Study Abroad Program.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester. Retakable w/chg in topic. Prereq: none. Additional prereqs may be assigned to specific topic.

309 Early Christianity. 3 cr. U. The early Christian period: what people believed and why; how Christianity was understood, practiced, and integrated into people's lives. Emergence from, contact with other religious cultures. No cr for students w/cr in Hist 370 w/same topic. Prereq: jr st.


351 Anthropological Theories of Religion. 3 cr. U. Anthropological theories of religion covering magic and witchcraft, moral order, sacred and profane, alienation, capitalism, neurosis, ritual, fetishism, fundamentalism, conversion, sacrifice, and healing. Anthro 351 & ReligSt 351 are jointly offered; they count as repeats of one another. Prereq: jr st.

361 (effective 09/02/2015) Russian and Slavic Folklore. 3 cr. U. Folk beliefs of the past thousand years, including medieval folk epics, fairy tales, and legends; impact of ancient pagan beliefs on contemporary Slavic cultures. Counts as repeat of Russian 391 w/same topic. ReligSt 361 & Russian 361 are jointly offered; they count as repeats of one another. Prereq: jr st.


489 Internship in Religious Studies, Upper Division. 1-6 cr. U. Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work. Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/chg in topic. Prereq: jr st, add'l prereqs may be assigned to specific topic.

544 Religious Giving in Anthropological Perspective. 3 cr. U. Seminar on religious directives for giving in historical and cross-cultural perspective, including Christian, Hindu, Buddhist, Muslim, and Jewish ideas of charity, philanthropy, and social welfare. Anthro 544 & ReligSt 544 are jointly offered; they count as repeats of one another. Prereq: jr st.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of ReligSt faculty or academic staff member. Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

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101 (German 180) First-Semester Swedish. 4 cr. U. Introductory course for students who have not studied Swedish previously. Oral practice, grammar, and reading. | Prereq: none.

102 (German 181) Second-Semester Swedish. 4 cr. U. Continuation of ScndvSt 101 (German 180). | Prereq: ScndvSt 101 (German 180) (P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

192 First-Year Seminar: (Subtitled). 3 cr. U. Specific humanities topics are announced in the Schedule of Classes each time the class is offered. | Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194). | Prereq: none.

199 Independent Study. 1-3 cr. U. Independent work under supervision of faculty or academic staff member. For further information, consult dept chair. | Retakable to 6 cr max. | Prereq: 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

203 (German 280) Third-Semester Swedish. 3 cr. U. Continuation of ScndvSt 102 (German 181). | Prereq: ScndvSt 102 (German 181) (P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

204 (German 281) Fourth-Semester Swedish. 3 cr. U. Continuation of ScndvSt 203 (German 280). | Prereq: ScndvSt 203 (German 280) (P) or equiv. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

289 Internship in Scandinavian Studies, Lower Division. 1-6 cr. U. Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political or other appropriate setting. One cr earned for academic work based on 40 hrs in internship. | Retakable to 6 cr max. | Prereq: jr st; 2.50 gpa; cons supervising faculty member.

296 UROP Apprenticeship. 1-3 cr. U. Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hours research. | Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs. | Prereq: acceptance to UROP; prior or conc reg in UROP seminar.

297 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course levels, content, and credits are determined and/or in specially prepared program course work. | Retakable w/chg in topic. | Prereq: acceptance for Study Abroad Program.

299 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires
only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.|Retakable w/chg in topic. Prereq: none; additional prereqs may be assigned to specific topic.

331 Intermediate Swedish Grammar and Writing. 3 cr. U. Review of major structures in Swedish grammar; application of those structures through writing and speaking. Emphasis on written accuracy and proficiency for academic/non-academic purposes.|Prereq: ScndvSt 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

332 Analysis of Swedish Texts. 3 cr. U. Authentic Swedish texts of different types with varied content and viewpoints. Overview of basic textual analysis skills; reading strategies; vocabulary and language skills.|Prereq: ScndvSt 204(P) or equiv; ScndvSt 331(R). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

426 Introduction to Translation: Swedish to English. 3 cr. U. Basic skills for Swedish to English translation using authentic texts from a variety of fields; translation strategies and tools; issues in grammar and style.|Prereq: jr st; ScndvSt 204(P) or cons instr.

489 Internship in Scandinavian Studies, Upper Division. 1-6 cr. U. Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.|Retakable to 6 cr max. Prereq: jr st; 2.50 gpa; cons supervising faculty member.

497 Study Abroad: (Subtitled). 1-12 cr. U. Designed to enroll students in UWM sponsored program before course level, content, and credits are determined and/or in specially prepared program course work.|Retakable w/chg in topic. Prereq: jr st; acceptance for Study Abroad Prog.

499 Ad Hoc: (Subtitled). 1-6 cr. U. Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.|Retakable w/chg in topic. Prereq: jr st; add'l prereqs may be assigned to specific topic.

699 Advanced Independent Study. 1-3 cr. U. Advanced level independent work under the supervision of ScndvSt faculty or academic staff member.|Retakable w/chg in topic to 9 cr max. Prereq: jr st; 2.50 gpa; writ cons instr, dept chair, & assoc dean for SAS.

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201 Introduction to Translation and Interpreting Studies. 3 cr. U. Linguistic and cultural aspects of globalization analyzed alongside emerging practices in various language service professions/specializations; prevailing modes of multilingual communication and cross-cultural interaction.|Prereq: none.

400 Consecutive Interpreting. 3 cr. U. Professional protocols and practices of different modalities of consecutive interpreting; exercises for improvement of split-attention, short-term memory and information organization; ethical principles of interpreting profession.|Prereq: jr st; sixth semester of a foreign language.

409 Seminar in Literary and Cultural Translation. 3 cr. U. Study and practice of literary translation in its cultural setting. Discussion of essays, analysis of published translations, translation practice, and collegial discussion of students' work.|Prereq: jr st; sixth-semester or equiv of a foreign language.

410 Comparative Systems for Translation. 3 cr. U. Comparative systems in society; how those systems relate to the field of translation; how to make informed translation choices based on subtle differences in systems.|Prereq: jr st.

411 Ethics and Procedures in Interpreting. 3 cr. U. Fundamentals of providing spoken language interpreting services in various settings.|Prereq: sixth sem of any lang or cons instr.

427 Project Management in Translation. 3 cr. U. Principles of project management and quality assurance in translation industry standards and techniques of effective project management for a variety of language service projects.|Prereq: jr st.

428 Editing for Translation. 3 cr. U. Translation industry standards and best practices for quality assurance. Students edit texts in English, applying style guides and implementing effective research techniques.|Prereq: jr st; cons Trnslttn Prog dir.

430 Internship in Translation. 3 cr. U. Internship offering on-the-job experience to students with a background in translation.|Prereq: jr st; cons Trnslttn Prog dir.

465 Introduction to Translation: English to French. 3 cr. U/G. Translation of texts from English into French. Comparative study of French and English syntax and comparative culture.|Prereq: jr st; grade of B or better in French 325(P); French 427(P) or cons instr.
530 (FLL 525) Business and Professional Aspects of Translation. 3 cr. U/G. Practical knowledge needed to succeed as free-lance or in-house translators; marketing, advertising, negotiating as well as legal and tax issues. Prereq: jr st; French 415(425)(P), or German 425(P), or Spanish 347(P) or 707(P), or Trnsltn 415(P), 425(P), or 707(P).

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