BIOLOGICAL SCIENCES 150, SECTION 401
FOUNDATIONS OF BIOLOGICAL SCIENCES I
SUMMER, 2018

LECTURES MEET IN LAPHAM 250, M,T,W, Th 9:00 AM to 10:50 AM
LABORATORY MEETS IN LAPHAM S284 M,T,W 11:00 to 1:50

Foundations I (204-150) and Foundations II (204-152) form the introductory biology sequence for majors. Both courses are required for the Biological Sciences major and should be taken as soon as possible in your undergraduate career. Note that both 150 and 152 are prerequisites to many of our advanced courses. Credit for advanced courses is not possible without first taking 150 and 152.

INSTRUCTOR:
Lecture: Dr. Chuck Wimpee, Lapham S495 and S486, 229-6881 Office Hours: MW 1:00-2:00 or by appointment. e-mail: cwimpee@uwm.edu
Lab Instructor: Brittany Vanderhoof. email: vande225@uwm.edu


Lab Manuals can be downloaded from D2L.

GRADING:

1. Lecture scores (60% of total grade) are based on four equally weighted, non-cumulative exams covering lecture material. Exams are multiple choice.
2. Lab scores (40% of total grade) will be based on attendance, written lab reports, lab manual question sheets and quizzes. See Laboratory Schedule and your TA's lab syllabus for further grading details.

Course grades will be assigned following the scale below:
A 93-100% A- 90-92%
B+ 87-89%  B 83-86% B- 80-82%
C+ 77-79%  C 73-76% C- 70-72%
D+ 67-69%  D 63-66% D- 60-62% F 0 - 59%

This grade scale assumes a class average of no less than 75%. If necessary, exam averages that fall below 75% will be adjusted to 75%, as will final course grades. The average grade will be no less than C.

LECTURE EXAM DATES (% TOTAL GRADE)
EXAM I: 6/7 (covers lectures and readings from 5/29 through 6/6) 15%
EXAM II: 6/18 (covers lectures and readings from 6/7 through 6/14) 15%
EXAM III: 6/26 (covers lectures and readings from 6/18 through 6/25) 15%
EXAM IV: 7/5 (covers lectures and readings from 6/26 through 7/3) 15%
MISSED EXAMS AND LABS:
Make-up exams will only be given for legitimate reasons (illness, emergency, religious holiday), and must be documented. Except for extreme emergencies, notification of absence from an exam must be given prior to the exam date to avoid a grade of 0%. Make-up exams may not be the same as the ones taken by the rest of the class; they may be essay exams, oral exams or a combination of the two.

MISSED LABS CANNOT BE MADE UP.

LECTURE SCHEDULE

5/29  Introduction, Chemistry  Chapter 1, 2
5/30  Biological Molecules, Enzymes  Chapter 3
5/31  Cells  Chapter 4
6/4  Membranes  Chapter 5
6/5  Respiration and fermentation  Chapter 6
6/6  Photosynthesis  Chapter 6
6/7  Exam I: covers lecture material from 5/29 through 6/6
    After exam: Mendel and Genetics  Chapter 8
6/11  Cell cycle, mitosis, meiosis  Chapter 7
6/12  DNA structure and replication  Chapter 9
6/13  Gene expression  Chapter 10
6/14  Gene regulation  Chapter 11
6/18  Exam II: covers lecture material from 6/7 through 6/14
    After exam: Genomes  Chapter 12
6/19  Mechanisms of evolution  Chapter 15
6/20  Phylogeny & Speciation  Chapter 16 & 17
6/21  History of Life  Chapter 18
6/25  Organisms and environment  Chapter 41
6/26  Exam III: covers lecture material from 6/18 through 6/25
    After exam: Population ecology  Chapter 42
6/27  Species interactions  Chapter 43
6/28  Community ecology  Chapter 44
7/2  Global Ecosystems  Chapter 45
7/3  Microbial ecology  p. 378-399
7/4  NO CLASS; INDEPENDENCE DAY
7/5  Exam IV: covers lecture material from 6/26 through 7/3
Department of Biological Sciences Majors Information

The Department of Biological Sciences offers undergraduate majors in the Biological Sciences and in Microbiology, an interdisciplinary major in Conservation and Environmental Biology, and a Biological Sciences minor. The program provides coursework and laboratory opportunities in ecology and evolution, molecular and microbial biology and physiology. The Biological Sciences program at UWM can be tailored to fit the unique interests and professional goals of the student. The Department provides the basic requirements for entrance into a variety of fast-growing careers related to biology and health sciences, as well as preparation for graduate work in the discipline. Honors in Biology is also available for students who meet the criteria. Students must declare a major upon completing 45 degree credits and before 75 credits have been earned. A student's failure to initiate and complete this process before 75 credits have been earned may result in a delay of graduation. The student should also regularly consult with an advisor in the College of Letters and Sciences and within the Department of Biology. A detailed listing of the requirements and recommended courses for Biological Sciences Major and how to declare a Major in Biological Sciences can be obtained from the receptionist in the Department of Biological Sciences Office, Lapham Hall Rm. 181.

Extensive information about the Major, career and job opportunities and the Graduate School application process can be found on the Department of Biological Sciences homepage at http://www.uwm.edu/Dept/Biology/

Departmental undergraduate advisors can be located at: http://www.uwm.edu/Dept/Biology/Docs/Ugrad.admins/advisors.html

Some University Guidelines

Academic Misconduct
The university has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. A more detailed description of Student Academic Disciplinary Procedures may be found in Regents Policy Statements, UWS Chapter 14 and UWM Faculty Document #1686.

Complaint Procedures
Students may direct complaints to the head of the academic unit or department in which the complaint occurs. If the complaint allegedly violates a specific university policy, it may be directed to the head of the department or academic unit in which the complaint occurred or to the appropriate university office responsible for enforcing the policy.

Grade Appeal Procedures
A student may appeal a grade on the grounds that it is based on a capricious or arbitrary decision of the course instructor. Such an appeal shall follow the established procedures adopted by the department, college, or school in which the course resides. These procedures are available in writing from the respective department chairperson or the Academic Dean of the College/School. A more detailed description of the grade Appeal Policy may be found in UWM Selected Academic and Administrative Policies, Policy #S-28 and UWM Faculty Document #1243.

Sexual Harassment
Sexual harassment is reprehensible and will not be tolerated by the University. It subverts the mission of the University and threatens the careers, educational experience, and well being of students, faculty, and staff. The University will not tolerate behavior between or among members of the University community which creates an unacceptable working environment.