

University of Wisconsin - Milwaukee

College of Engineering & Applied Science

INTEGRATED BACHELOR OF SCIENCE-MASTER OF SCIENCE PROGRAM

In Computer Science

Program Description

To encourage outstanding undergraduate computer science students to continue their studies toward an advanced degree, the College of Engineering & Applied Science allows qualified students to begin their master's degree course work in their senior year. Students admitted to the Integrated Program take six graduate credits as part of the BS degree requirements. Once admitted to the Graduate School, students in the Integrated Program are required to complete an additional 21 credits (Thesis Option) or 24 credits (Non-Thesis Option) to earn a Master of Science in Engineering or Master of Science in Computer Science.

The Integrate Program offers three advantages over the standard MS Program:

1. **Less time** - total credits are reduced by six credits.
2. **Less cost** - pay undergraduate tuition instead of graduate tuition for the first six credits.
3. **No GRE** - students admitted to the Integrated Program are not required to take the GRE exam for admission to the Graduate School.

Admission Requirements

- Currently enrolled in the undergraduate computer science program
- 3.2 cumulative GPA or higher
- 36 credits or less remaining for BS degree

Application Process

1. Meet with a faculty advisor in your department to develop an Integrated BS/MS Program of Study (forms are available in EMS E386, E379, and 1019). Ideally students should meet with a faculty advisor in the 2nd semester of their Junior year and start graduate courses in their Senior year. You must be admitted to the Integrated BS/MS Program prior to the start of your final undergraduate semester.
2. Submit the proposed Integrated BS/MS Program of Study to the CS Graduate Program Representative (CSGPR) in room EMS 1019.
3. If your Program of Study is approved by the CSGPR, register for two graduate-level courses (six credits) in your senior year. If a course has U/G status, you must follow the syllabus and grading scale designated for graduate students.
4. At the beginning of your last undergraduate semester, you need to formally apply to the Graduate School online at www.graduateschool.uwm.edu/. Submit a copy of your approved Integrated BS/MS Program of Study to the Graduate School with your application.

Once admitted to the Integrated BS/MS, you are required to meet the academic standards of the Graduate School. For details on Graduate School policies and procedures go to the Graduate School website:

www.graduateschool.uwm.edu/students/policies/.

UWM College of Engineering & Applied Science
Computer Science Graduate Programs Office

Location: EMS 1019 Phone: (414) 229-4677 Email: csgpr@cs.uwm.edu

College of Engineering & Applied Science
Master of Science Degree in Computer Science
~ Integrated BS/MS Program of Study ~

Guidelines in Developing the Program of Study

Students in the Integrated BS/MS Program, in consultation with the major professor, must develop a proposed Program of Study (POS) prior to the start of graduate courses. Six credits of the program are completed as part of the Bachelor's degree. The POS must be approved by the advisor and the Graduate Program Representative for the Computer Science MS Program and must meet the distribution requirements listed below. For subsequent changes, the student must file a revised POS for approval. If a course has U/G status, the student must follow the syllabus and grading scale designated for graduate students to have it count toward the MS degree. A U/G course will not be counted toward the graduate degree unless it was approved as part of the MS Program of Study prior to the start of the course.

MINIMUM CREDIT REQUIREMENTS

Program Option	Overall Credit Requirement	Credit Distribution for Program
Thesis	6 course credits completed as part of BS. 15 course credits completed after admission to graduate status. 6 thesis credits Total 27 credits	Minimum 15 course credits at or above 700 level.
Non-Thesis	6 course credits completed as a part of BS. 21 course credits completed after admission to graduate status. 3 credits of CS 995/Capstone Project. Total 30 credits	Minimum 21 course credits at or above 700 level (including CS 704 and excluding 3 credits of CS 995/Capstone Project).

The following is a common requirement for both options: The students must have taken six Computer Science courses (specified below) or their equivalent prior to completion of the MS Program. Appropriate courses satisfy the common requirement with the approval of the department. The six courses are:

- 1) All four of the following courses:
 CS 315 Computer Organization and Assembly Language Programming
 CS 317 Discrete Information Structures
 CS 458 Computer Architecture
 CS 535 Data Structure and Algorithms
 and
- 2) Any two of the following four courses:
 CS 417 Introduction to the Theory of Computation
 CS 431 Programming language Concepts
 CS 536 Software Engineering
 CS 537 Operating Systems

At most six credits of the above courses with UG credit may be used to satisfy the courses requirements of the two options.

- 3) In the thesis option, the student must register for thesis credits (CS 990) in at least two semesters.

MASTER OF SCIENCE IN COMPUTER SCIENCE ~ INTEGRATED BS/MS PROGRAM OF STUDY ~
(Please Print Clearly)

NAME: _____ STUDENT ID #: _____ DATE: _____
 ADDRESS: _____ PHONE: _____
 E-MAIL: _____ AREA OF STUDY: _____ ADVISOR: _____

Thesis Option – 27 cr. Non-Thesis Option – 30 cr.	Course Number	Course Title	Credits	Semester	BS/MS* Credits
TECHNICAL PROGRAM (Thesis Option – 21 cr. minimum) (Non-Thesis Option – 27 cr. minimum)					
Capstone CS 995 – 3 cr. (NON-THESIS)					
THESIS (6 cr. minimum)					

* You must indicate (X) which two courses (maximum 6 credits) are to be completed as part of the BS degree requirements.

SUBMITTED BY: _____ DATE: _____
 Student

APPROVED BY: _____ DATE: _____
 Major Professor

APPROVED BY _____ DATE: _____
 Graduate Program Representative for the CS MS Program

- 700 Level or higher requirement: Thesis Option is 15 credits of 700 or higher level courses (including CS 704 and excluding Thesis); Non-Thesis Option is 21 credits of 700 or higher level courses (including CS 704, and excluding 3 cr. of CS 995/Capstone Project).
- Coursework transferred from another institution must be approved by using the Application for Transfer of Off Campus Credits (following the appropriate guidelines as stated on the back of the application form). Form is available from the Graduate School.