

# INTEGRATED BS-MS DEGREE

## Requirements

### Admission

An Integrated BS-MS program is available for exceptional undergraduate students. In this program, students take 6 graduate credits while completing the BS degree.

Minimum admission requirements:

- 3.2 GPA.
- 36 credits or less remaining for the BS.
- Approval from their major department.

### Application Process

- In consultation with their major professor, students must complete an Integrated BS/MS Program of Study Form. Students must indicate on the form which 6 graduate-level credits are being taken while completing the BS degree. Engineering students must have the form approved by the CEAS Office of Graduate Programs and Research. Computer Science students must have the form approved by the Graduate Program Representative for the CompSci MS Program. Students must have their Program of Study approved prior to the start of the final undergraduate semester and before starting graduate courses.
- Students must apply to the Graduate School. The MS degree requirements must be completed within five years of completion of the BS degree. Students in the Integrated Program are not required to take the GRE exam for admission to the Graduate School.

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines>).

### Program of Study

Advanced standing will be granted to Integrated BS-MS students who have successfully completed six credits of pre-approved coursework at the graduate level with a grade of B or better. If a course has U/G status, the student must follow the syllabus and grading scale designated for graduate students. Once admitted to the Graduate School, students in the Integrated Program must meet the requirements listed in the following tables:

### Master of Science in Engineering

#### Thesis

- 24 course credits completed after admission to graduate status. Requires 3-credit Graduate Seminar course.
- 6 thesis credits
- Total 30 credits

#### Non-Thesis

- 31 course credits completed after admission to graduate status. Requires 1-credit Graduate Seminar course.
- Total 31 credits

### Master of Science in Computer Science

#### Thesis

Code	Title	Credits
COMPSCI 700	CEAS Graduate Seminar	3
COMPSCI 704	Analysis of Algorithms	3
Select 12 additional credits of 700 or higher-level courses		12
Select 6 credits of additional courses that carry graduate credit		6
COMPSCI 990	Masters Thesis	6
Total Credits		30

#### Non-Thesis 1

Code	Title	Credits
COMPSCI 700	CEAS Graduate Seminar	1
COMPSCI 704	Analysis of Algorithms	3
Select 15 additional credits of 700 or higher-level courses		15
Select 9 credits of additional courses that carry graduate credit		9
COMPSCI 995	Master's Capstone Project	3
Total Credits		31

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:

Code	Title	Credits
COMPSCI 315	Introduction to Computer Organization and Assembly Language Programming	3
COMPSCI 317	Discrete Information Structures	3
COMPSCI 458	Computer Architecture	3
COMPSCI 535	Algorithm Design and Analysis	3
Select two of the following:		6
COMPSCI 417	Introduction to the Theory of Computation	
COMPSCI 431	Programming Languages Concepts	
COMPSCI 536	Software Engineering	
COMPSCI 537	Introduction to Operating Systems	
Total Credits		18

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

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

### Time Limit

The MS degree requirements must be completed within five years of the first enrollment in the Integrated Program.

### Graduation

Students who withdraw from the Integrated Program may continue in the BS program and be awarded the bachelor's degree.