

Biomedical Engineering, MS

Requirements

The Master of Science program in biomedical engineering requires a minimum of 30 s.h. of graduate credit, with or without a thesis. Students must maintain a UI cumulative grade-point average of at least 2.75 in all work for the degree. The MS may be a terminal degree or a step toward the PhD.

All MS students (thesis or nonthesis) must successfully complete the Graduate Core Courses as part of their graduate curriculum during their first year of study. Additionally, students are required to complete 18 s.h. of graduate-level coursework in the College of Engineering over the course of their studies. BSE/MS fast-track students may include courses taken during year four and/or year five.

A tentative plan of study for each student is determined through consultation with an advisor. An MS committee of at least three faculty members, including at least two tenure-track biomedical engineering faculty, is required.

Graduate Core Courses

Course #	Title	Hours
ENGR:7270	Engineering Ethics	1
HHP:3550	Human Physiology With Laboratory	5
ME:5113	Mathematical Methods in Engineering (or equivalent graduate mathematics course; approval of academic advisor required before registering)	3

Depending upon a student's performance in Graduate Core Courses and the nature of their research project, the student's examining committee may specify additional coursework to be completed to satisfy the Graduate Core Courses requirement.

Graduate Core Courses may be substituted by other equivalent courses at the discretion of the student's examining committee. Equivalent coursework taken as part of a student's undergraduate or graduate studies prior to starting the MS program at the University of Iowa may satisfy one or more of the Graduate Core Courses requirements. Students who wish to request a substitution or a waiver of HHP:3550 Human Physiology With Laboratory or ME:5113 Mathematical Methods in Engineering must submit a core course substitution or waiver form. Forms may be obtained from the graduate program coordinator.

Thesis Students

Students who choose the thesis program may count no more than 6 s.h. of thesis research and writing credit toward the degree. All thesis students must successfully complete the final examination administered by their committee, which consists of a written thesis and an oral presentation and defense to the examining committee.

Nonthesis Students

Students who choose the nonthesis program must earn at least 6 s.h. of credit in courses numbered 5000 or above. There is no oral or written exam required for the nonthesis master's degree.