

## BIOMEDICAL ENGINEERING AMP

All students must meet the Requirements for the Accelerated Master's Degree Programs (<http://catalogue.uvm.edu/graduate/degree/requirements/requirementsforacceleratedmastersdegreeprograms/>)

### OVERVIEW

Qualified undergraduate students who plan to earn a M.S. in biomedical engineering may enroll in the Accelerated Master's Entry Program, which enables students to begin working on the M.S. while still an undergraduate. Students apply to the program in the second semester of their junior year. Following acceptance by the Graduate College, students may take up to 6 graduate credits while still an undergraduate that can be counted toward both the B.S. and the M.S. degrees. Another 3 graduate credits can be counted towards the M.S. degree while an undergraduate but cannot count towards the B.S. degree. The graduate credits taken prior to completion of the bachelor's must be in graded coursework only; independent study, research credits, internships and practica will not count towards the M.S. In addition, the courses taken must be approved by the student's graduate advisor.

### SPECIFIC REQUIREMENTS

#### Requirements for Admission to Graduate Studies for the Degree of Master of Science for Accelerated Students

To apply for the program, students must be enrolled in an engineering program at the University of Vermont with a cumulative grade point average of at least 3.20 at the time of application, and must complete the CEMS Accelerated Masters Permission Form and the Graduate College application. For thesis students, the application should name a graduate faculty member who has agreed to serve as their thesis advisor. No Graduate Record Examination (GRE) is required for AMP applicants.

#### Minimum Degree Requirements for the Degree of Master of Science

Thesis-Based: Coursework component - 24 credit hours. At least 15 credit hours will come from CEE, EE, BME, ME, and/or ENGR graduate courses. At least 6 credits will have BME designation and at least 6 credits will be at the 300-level. Thesis component - 6 credit hours of research conducted with BME associated faculty. Research proposal presentation to serve as comprehensive exam.

Project-Based: Coursework component - 27 credit hours. At least 18 credit hours will come from CEE, EE, BME, ME, and/or ENGR graduate courses. At least 9 credits will have BME designation and at least 6 credits will be at the 300-level. Project component - 3 credit hours of project conducted with BME associated faculty. Final presentation to serve as comprehensive exam.

Coursework Option: 30 credit hours. At least 18 credit hours will come from CEE, EE, BME, ME, and/or ENGR graduate courses. At

least 9 credits will have BME designation and at least 6 credits will be at the 300-level. Final presentation to serve as comprehensive exam.

#### Comprehensive Examination

M.S. Thesis Option: The student must orally present a proposal for their thesis research at least 3 months prior to graduation. The student's thesis committee will orally examine the student based on the student's coursework and research focus.

M.S. Project Option: The student must orally present a proposal for their project research approximately 3 months prior to graduation. The student's project committee will orally examine the student based on the student's coursework and research focus.

M.S. Coursework Option: The student must complete a written and/or oral comprehensive exam during the final semester of residence at UVM.

#### Requirements for Advancement to Candidacy for the Degree of Master of Science

An accredited bachelor's degree in engineering or equivalent education.