

BIOMEDICAL ENGINEERING M.S.

All students must meet the Requirements for the Master's Degree (<http://catalogue.uvm.edu/graduate/degreerequirements/requirementsforthemastersdegree/>)

OVERVIEW

Leveraging strong ties between the University of Vermont's College of Engineering and Mathematical Sciences and the Larner College of Medicine, the new Master of Science in Biomedical Engineering (MSBME) was created to give students the opportunity to develop advanced skills so that they may apply engineering methods to address problems related to human health. Students enrolled in the MS in BME program will have the opportunity to pursue a research-oriented thesis based, project-based or coursework based program.

SPECIFIC REQUIREMENTS

Requirements for Admission to Graduate Studies for the Degree of Master of Science

An accredited bachelor's degree in an appropriate field and completion of the general (aptitude) portion of the Graduate Record Examination (GRE).

Minimum Degree Requirements

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.