

BIOMEDICAL ENGINEERING M.S.

All students must meet the Requirements for the Master's Degree

OVERVIEW

Leveraging strong ties between the University of Vermont's College of Engineering and Mathematical Sciences and the Larner College of Medicine, the Master of Science (M.S.) in Biomedical Engineering gives students the opportunity to develop advanced engineering skills and domain expertise so that they may apply engineering methods to address problems related to human health. Students enrolled in the M.S. in BME program pursue a 2-year, personalized plan of study that includes only coursework, a project, or a research-oriented thesis.

SPECIFIC REQUIREMENTS

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

An accredited bachelor's degree in biomedical engineering or a similar technical field. Special arrangements may be made, on an individual basis, for students who hold a bachelor's degree in other areas. No Graduate Record Examination (GRE) is required.

Minimum Degree Requirements

Thesis-Based: Coursework component - 24 credit hours, at least 6 of which must be at the 6000-level. 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. Thesis component - 6 credit hours of research conducted with BME associated faculty. Students must complete a comprehensive exam.

Project-Based: Coursework component - 27 credit hours, at least 6 of which must be at the 6000-level. 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. Project component - 3 credit hours of project conducted with BME associated faculty. Students must complete a comprehensive exam.

Coursework Option: 30 credit hours, at least 6 of which must be at the 6000-level. 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. Students must complete a 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 approximately 3 months prior to graduation. The student's project committee will orally examine the student based on the student's coursework and project focus.

M.S. Coursework Option: The student must complete a written and/or oral comprehensive exam during the final semester of residence at UVM that will be based on their completed coursework. This requirement may be waived if students achieve a B+ or better in their BME coursework

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

Successful completion of the Comprehensive Examination.