MECHANICAL ENGINEERING AMP

All students must meet the Requirements for the Accelerated Master’s Degree Programs

OVERVIEW

Qualified undergraduate students who plan to earn a master’s degree in mechanical engineering may enroll in the Accelerated Master’s Program, which enables students to begin working on a master’s degree 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 nine graduate credits while still an undergraduate. Of these, up to six credits can be counted toward both the B.S. and the M.S. degrees, subject to approval of the student’s graduate advisor. Students in the Accelerated Masters Program must follow either the non-thesis option or research thesis option M.S. degree requirements. For the thesis option, research counting toward the thesis will typically begin immediately in the summer following their junior year.

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 at the University of Vermont in mechanical engineering with a cumulative grade point average of at least 3.20 at the time of application, must submit a letter of application to the graduate program coordinator and, if applicable, naming a faculty member who has agreed to serve as their graduate advisor, and must complete the Graduate College application. No Graduate Record Examination (GRE) is required for admission for AMP applicants in mechanical engineering.

Minimum Degree Requirements for the Degree of Master of Science

The Mechanical Engineering AMP requires the completion of advanced courses in mechanical engineering, mathematics, and other approved courses and research (for thesis students) totaling at least thirty credits.

Students are required to complete:

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<th>A prescribed set of nine core course credits which cover areas of advanced engineering, mathematics, continuum mechanics, and numerical methods</th>
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<td>Six course credits in the area of specialization for their degree</td>
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Currently, the program offers areas of specialization in:

- Bioengineering and Biomechanics;
- Control Theory and Design of Mechanical Systems;
- Materials Engineering and Solid Mechanics;
- Thermodynamics, Fluids and Energy; and
- Computational Mechanics.

Further details on the core course requirements and the areas of specialization can be obtained from the Mechanical Engineering Graduate Program website.

Comprehensive Examination

Candidates in the non-thesis option must take the written examination, while those following the thesis option must successfully present a proposal research seminar.

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

A cumulative grade point average of 3.00 or better.