MATERIALS SCIENCE AMP

All students must meet the Requirements for the Accelerated Master’s Degree Programs (http://catalogue.uvm.edu/graduate/degreerequirements/requirementsforacceleratedmastersdegreeprograms/)

OVERVIEW

The Accelerated Master’s Entry Program leads to both B.S. and M.S. degrees in five years. The program is open to undergraduate physics, electrical engineering, and mechanical engineering majors. Interested students should contact the Materials Science director by the beginning of their junior year.

Following formal Graduate College admission to the Accelerated Master’s Program, up to 6 credits of approved graduate course work may be taken that may be counted toward both the undergraduate and graduate degree requirements.

SPECIFIC REQUIREMENTS

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

A major in physics, chemistry, engineering, or mathematics.

Minimum Degree Requirements

The above requirements for admission must be supplemented in either of the following ways:

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<th>OPTION A (THESIS)</th>
<th>OPTION B (NON-THESIS)</th>
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<td>Thirty graduate credits of an approved program of study including at least eighteen credits of course work; completion of at least one three-credit course in each of the following categories: solid state theory, quantum mechanics, applied mathematics, and materials properties of solids; satisfactory completion of a comprehensive examination, and satisfactory completion of an M.S. thesis including its defense at an oral examination</td>
<td>Thirty graduate credits of an approved program of study; completion of at least one three-credit course in each of the following categories: solid state theory, quantum mechanics, applied mathematics, and materials properties of solids, and satisfactory completion of a comprehensive examination</td>
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Comprehensive Examination

Full-time Materials Science M.S. candidates are required to pass a written Comprehensive (Qualifying) Exam with a score of 50% or better, no later than four semesters after joining the program. Failure to pass the test will result in dismissal from the program. The deadline for part-time students is the semester they complete 24 credits. All students (full and part-time) are allowed a maximum of two attempts to pass the exam. Offered annually, the three-hour exam requires students to solve a minimum of four problems that cover the following topics: quantum mechanics, mathematical physics, advanced inorganic chemistry or equivalent core course requirements.

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

Successful completion of a comprehensive examination in Materials Science.