

## ELECTRICAL ENGINEERING AMP

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

### OVERVIEW

Qualified undergraduate students who plan to earn a M.S. in electrical engineering may enroll in the Accelerated Master's Entry Pathway, which enables students to begin working on the M.S. while still an undergraduate. Students apply by 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. This is subject to approval of the student's graduate advisor. Students in the program who want to pursue the thesis option typically engage in research 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 to the program, students must have 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 naming a faculty member who has agreed to serve as their graduate advisor and must complete the Graduate College application.

#### Minimum Degree Requirements

Advanced courses in electrical engineering, physics, computer science, and mathematics (18 to 24 credits, at least 6 of which must be at the 6000-level) with at least 15 credits appropriately distributed in approved areas of study in the Electrical Engineering department. Thesis research (6 to 12 credits).

Students are free to pursue any M.S. degree option: thesis, project, or course-work only options. For students interested in academic research and working closely with a faculty advisor, a thesis is normally expected in the program.

In all cases, successful completion of the M.S. degree will require passing a comprehensive examination. This examination will in part be based on course work that was taken in the pursuit of the M.S. degree. Thesis option students will be tested orally at the time of their thesis proposal while project students will be asked to write and present a report on a design or research topic of interest.

#### Comprehensive Examination

M.S. Thesis Option: The student must orally present a proposal for their thesis research no later than the semester prior to the semester in which the student plans to graduate. The student's thesis committee will orally examine the student based on the student's coursework and research focus.

M.S. Project Option: Under the supervision of an EE graduate faculty member, the student must prepare and present a written proposal for their research project at least 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 an oral comprehensive exam during the final semester of residence at UVM based on course work for EE graduate courses where a grade below a B+ was earned.

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

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