

MASTER OF SCIENCE PROGRAMS

The master's degree programs are intended to provide advanced study in a relevant area of engineering. The programs provide sufficient flexibility to allow students to develop an area of specialization, broaden their educational experience into additional areas of engineering, or synthesize an integrated program of interdepartmental studies through a thesis or project.

Plan of Study

The Master of Science in engineering, Master of Science in bioengineering, Master of Science in chemical engineering, Master of Science in civil engineering, Master of Science in electrical engineering, Master of Science in industrial engineering, and Master of Science in mechanical engineering are offered with the following options:

1. **Master of science degree with thesis option:** A minimum of 30 credit hours of approved graduate study, including nine credit hours of master of science thesis under the supervision of a faculty member, is required. Students are required to submit a written thesis and successfully complete the oral defense of the thesis work. Additional guidelines and requirements may exist for individual departments.
2. **Master of science degree with non-thesis option:** The master of science with non-thesis option is available with the approval of the department chair or the department graduate program director.
 - a. **Master of science degree with project option:** Students are required to complete 30 credit hours of approved graduate study, including six hours of master of science project as specified by individual department guidelines and requirements. Students are required to submit a written project report to the department.
 - b. **Master of science degree with course work-only option:** Students are required to complete 30 credit hours of approved graduate-level course work. Additional hours of course work to replace thesis or project are selected from departmental electives approved by the department chair or the graduate program director. The master of science degree in chemical engineering has an additional non-thesis option, a Professional Science Masters in Green Chemistry and Engineering, that requires 30 credit hours of approved graduate-level course work and 6 hours on internship.

A plan of study that specifies the entire master's program to include thesis or project and graduate course work, as well as any specified preparatory undergraduate course work, is to be developed by the student working with his/her advisor. This plan of study is to be submitted for review and approval to the department's graduate director, the department chair, the college's associate dean of graduate studies, and the College of Graduate Studies before 10 graduate credits are completed. Graduate course work is selected from that available in engineering, math, science, business and related fields to include required core courses and/or to satisfy course category restrictions specified by the individual programs. Students should consult the departmental program descriptions for additional requirements.

In order to be awarded the Master of Science degree, the student must have at least a B average (minimum GPA of 3.0/4.0) for all graduate course credits in the program as well as for their entire graduate transcript. Only credit hours obtained with a letter grade of "C" or higher, or an "S" grade for the limited number of classes offered on a satisfactory or unsatisfactory basis, will fulfill degree requirements.