

# BACHELOR'S PLUS MASTER'S PROGRAM

The School of Engineering offers a combined program leading to both a bachelor's degree in an engineering major and a master's degree. Physics and Biology majors (College of Arts and Sciences) may also participate. The program is designed for the qualified student who wishes to pursue either greater specialization in a major area or to complement the undergraduate program with a related graduate-level concentration. Most students who select the program have received some advanced placement upon entry to engineering at the first-year level or take occasional summer courses.

The formal request for entrance into this program may be made as early as before the first semester of the student's junior year, but the student should consult their department to determine exactly when this request should be made. Admission requirements include a minimum cumulative grade point average of 3.00 and permission from the chairperson of the department corresponding to the student's undergraduate major and chair/program director of selected master's program. Students must formally apply to the graduate school during their senior year. Selection of the graduate (master's) program area is indicated below:

Undergraduate Program	Graduate Program Selections
Biology	Bioengineering*
Chemical Engineering	Bioengineering, Chemical Engineering, Civil Engineering, Electro-Optics*, Engineering Management, Engineering Mechanics, Management Science, Materials Engineering, Renewable and Clean Energy
Civil Engineering	Bioengineering, Civil Engineering, Engineering Management, Engineering Mechanics, Management Science, Materials Engineering, Renewable and Clean Energy
Computer Engineering	Bioengineering, Civil Engineering, Computer Engineering, Electrical Engineering, Electro-Optics*, Engineering Management, Engineering Mechanics, Management Science, Materials Engineering, Renewable and Clean Energy
Electrical Engineering	Bioengineering, Civil Engineering, Computer Engineering, Electrical Engineering, Electro-Optics, Engineering Management, Engineering Mechanics, Management Science, Materials Engineering, Renewable and Clean Energy

Mechanical Engineering	Aerospace Engineering, Bioengineering, Civil Engineering, Electro-Optics*, Engineering Management, Engineering Mechanics, Management Science, Materials Engineering, Mechanical Engineering, Renewable and Clean Energy
Engineering Technology	Engineering Management, Management Science, Materials Engineering
Physics	Electro-Optics, Materials Engineering

New Row

\* This major may need additional courses to qualify for the master's program.

The department chairperson and the graduate program director serve as an advisory committee to the student in establishing the combined program requirements. The first-year, sophomore and junior years follow the curriculum of the student's selected bachelor's program.

A student who elects the combined program must satisfy both undergraduate and graduate degree requirements as to required cumulative grade point average for graduation. The graduate of the combined program will receive a bachelor's degree in the undergraduate major (e.g., Bachelor of Mechanical Engineering) and a master's degree in the graduate area (e.g., Master of Science in Materials Engineering). A student in the 5-year combined program who chooses not to complete the program must complete all the undergraduate major program requirements to receive the bachelor's degree.

Course Area	Semester	Hours
Senior Year	1st Term	2nd Term/SU Term
Undergraduate department major	11	11
Undergraduate department or University requirement or electives	3	3
Graduate major (taken as undergraduate credit)	3	3
Total semester hours	17	17
Fifth Year - Graduate Level	8-10	8-10/8-10
Graduate major (including thesis or project)*	12	12