

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 at an accelerated pace. Currently, Physics and Biology majors (College of Arts and Sciences) may also participate in a path that results in an engineering master's degree. 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.

For formal request for entrance into this program, a student must meet with an advisor from both their undergraduate and target graduate programs, then follow the university approved application process.

Admission requirements also include a minimum cumulative grade point average of 3.0 and approval from the graduate program director of the selected master's program. Students must formally apply to the graduate school during their final semester of their senior year. Selection of the current graduate (master's) program area is indicated below, but could be expanded if a pathway is requested and approved:

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

Mechanical Engineering	Aerospace Engineering, Bioengineering, Business Analytics, Civil Engineering, Electro-Optics*, Engineering Management, Engineering Mechanics, Finance, Systems Engineering, Materials Engineering, Mechanical Engineering, Renewable and Clean Energy Engineering
Engineering Technology	Business Analytics, Engineering Management, Finance, Systems Engineering, Materials Engineering
Physics	Electro-Optics, Materials Engineering

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

The department's graduate program director and the student's undergraduate academic advisor serve as an advisory committee to the student in establishing the combined program requirements and ensuring that double counted courses successfully apply to both curriculum. The first-year and sophomore 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 the 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 combined program who chooses not to complete the program must complete all the undergraduate major program requirements to receive the bachelor's degree. An example plan of how the bachelor's plus master's plan works is shown below

Course Area	Semester	Hours
Senior Year	1st Term	2nd Term
Undergraduate department major or University requirements	14	11
Graduate major; taken as undergraduate credit and applies toward both degrees	3	6
Total semester hours (Senior year)	17	17
Fifth Year - Graduate Level	12	9
Graduate major total (including graduate taken as undergrad and Fifth year)	15	15