

## ENGINEERING SCIENCE MINOR

Students not majoring in biomedical engineering, chemical engineering, or engineering physics may earn a minor in Engineering Science by completing the Engineering Science minor. Interested students should contact the Associate Dean of the School of Science and Engineering to declare the minor and discuss the requirements.

### Requirements

Students **not** majoring in biomedical, chemical engineering or engineering physics may earn a minor in Engineering Science by completing the following courses:

### Prerequisite Math and Science Courses

Course ID	Title	Credits
MATH 1210	Calculus I	4
MATH 1220	Calculus II	4
MATH 2210	Calculus III	4
MATH 2240 or MATH 4240	Intro To Applied Math Ordinary Differentl Equa	4
PHYS 1310	General Physics I	4
PHYS 1320	General Physics II	4

Not all of the above math courses are required prior to taking 1000-2000 level engineering courses. See individual course descriptions for details.

Note: The following courses may be required for some engineering course options:

Course ID	Title	Credits
CHEM 1070 & CHEM 1075	General Chemistry I and General Chemistry Lab I	4
CHEM 1080 & CHEM 1085	General Chemistry II and General Chemistry Lab II	4

### Engineering Courses Required

Course ID	Title	Credits
Select two of the following:		6
ENGP 1410	Statics	3
ENGP 2010	Electric Circuits	3
CENG 2110	Matl & Energy Balances (Additional Prerequisite: CHEM 1070, 1080)	3
CENG 2120	Thermodynamics I	3
ENGP 2430	Mechanics of Materials (Prerequisite: ENGP 1410)	3
CENG 2500	Intro To Biotechnology (Additional Prerequisite: CHEM 1070, 1080)	3
ENGP 3120	Materials Science and Engineering (Additional Prerequisite: CHEM 1070, 1080)	3
Select one of the following:		3
BMEN/ENGP 2310	Product & Experimental Design	3
BMEN/ENGP 2020	Computing Concepts & Applic	4
Select two 3000-4000 level electives in either biomedical, chemical engineering or engineering physics		6

### Engineering Science Minor with an SSE Major

- Twenty-four credits in the major may not overlap with the minor.
- Student must earn a GPA of at least 2.00 in courses counting toward the minor. No courses counting toward a student's first minor will count toward the student's second minor.