MINOR IN ENGINEERING SCIENCE

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

I. Prerequisite Math and Science Courses:

MATH 1210 Calculus I (4)
MATH 1220 Calculus II (4)
MATH 2210 Calculus III (4)
MATH 2240 Introduction to Applied Mathematics (4)
PHYS 1310; PHYS 1320 (4, 4) General Physics I and II (4,4)

Total: 24

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

CHEM 1070/1075; CHEM 1080/1085 General Chemistry (4,4)

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

II. Engineering Courses Required:

a) Two courses chosen from the following list:

ENGP 1410 Statics (3)
ENGP 2010 Electric Circuits I (3)
CENG 2110 Material and Energy Balances (3)
   Additional Prerequisite: CHEM 1070, 1080
CENG 2120 Thermodynamics (3)
ENGP 2430 Mechanics of Materials
   Prerequisite: ENGP1410
CENG 2500 Introduction to Biotechnology and Biomolecular Engineering (3)
   Additional Prerequisite: CHEM 1070, 1080
ENGP 3120 Materials Science and Engineering (3)
   Additional Prerequisite: CHEM 1070, 1080

Total 6

b) One course chosen from the following list:

BMEN/ENGP 2310 Product & Experimental Design (3)
BMEN/ENGP 2020 Computer Concepts & Applications (4)

Total 3-4

c) Two 3000-4000 level electives in either biomedical, chemical engineering or engineering physics. (3,3)

Total 6

III. 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 2.000 in courses counting toward the minor. No courses counting toward a student’s first minor will count toward the student’s second minor.