The School of Science and Engineering

Engineering Science

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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)
   - or MATH 4240 Ordinary Differential Equations (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 107/117; CHEM 108/118 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 (3)
        *Prerequisite: ENGP1410*
      - CENG 2500 Introduction To Biotechnology and Biomolecular Engineering (3)
        *Prerequisite: CENG2110*
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.