Environmental Engineering Major (EnvE) Roadmap

KEY

- Common Curriculum
- Engr. Dist.
- Major Program
- Elective

 prerequisite

 prerequisite or corequisite

BEE 1510 or CS 1110

BEE 1200 or Intro to Eng

ENGRD 2510

ENGRD 3200 or 2210 or BEE 2220

CEE 3040

Design Elect

Major Appr.

BEE 4750

Lab Course

Design Elect

Error

Design Elect

Liberal Studies

Liberal Studies

Liberal Studies

Liberal Studies

Liberal Studies

Liberal Studies

Intro Biop

Complete before semester 5
Students matriculated in CALS usually take BEE 1510 for the computing requirement. Engineering students may take CS 1110, 1112, or 1114. (Engineering students who matriculated Fall 2011 or earlier must also take CS 1130 or CS 1132)

Engineering matriculates must enroll in CHEM 2090 (fall, spring); CALS matriculates must enroll in CHEM 2070 (fall). Students in either college may also substitute CHEM 2150 for CHEM 2090 or CHEM 2070.

In addition to the first-year writing seminars, a technical writing course must be taken as an engineering distribution, liberal studies, approved elective or major course. An approved COMM or ENGRC course, or BEE 4730, or BEE 4890 (required to be co-registered with ENGRC 4890), will satisfy this requirement. Students meeting the technical communications requirement with a course that fulfills another requirement (e.g., Liberal Studies, Lab. Design) can use that one course to satisfy both requirements.

BEE 1200 combined with BEE 1510: Introduction to Computer Programming (5 credits total) satisfies the ENGRI requirement for CALS matriculated students. Students using BEE 1200 and BEE 1510 to satisfy the ENGRI requirement must make up the 2-credit difference with engineering course work.

Choose one of the following biology courses: BIOEE/BIOSM 1610, BIOMG 1350, BIOEE/BIOSM 1780, BIOG 1440, BIOG 1445. Complete before semester 5. If you received a 4 on AP BIO, you will receive 4 credits of intro bio. If you received a 5 on AP BIO, you will receive 8 credits of intro bio and 4 credits will satisfy the intro bio requirement.

ENGRD 2020 (fall and spring) and 2210 (fall and summer), 3200 (spring) or BEE 2220 (spring) are recommended. Students electing to use ENGRD 2020, 2210, or 3200 as a second engineering distribution must take an additional Major-approved elective to make up the credits.

CHEM 1570 (spring), CHEM 3530 (Fall), CHEM 3570 (fall).

ENGRD 2700: Basic Engineering Probability and Statistics is accepted (by petition) to substitute for CEE 3040 if taken prior to affiliation with Environmental Engineering, or if necessary because of scheduling conflicts caused by co-op or study abroad programs.

Students may take BIOMI 2900 General Microbiology Lectures, in place of CEE 4510.

The lists of suggested courses are published in the Undergraduate Handbook for Environmental Engineering. At least one design elective must be chosen from the list of Capstone design courses.

CEE 3230 (spring), BEE 4890 (fall).