

KU Environmental Engineering

Recommended Electives for the BSCE/environmental-emphasis

While there are many required courses that all BSCE students complete, the BSCE/environmental-emphasis curriculum includes some elective courses too. These electives are in the basic sciences, humanities, social sciences, engineering sciences, and engineering design. You will consult with your advisor each semester to select the best courses that meet the degree requirements and your professional and personal goals.

BASIC SCIENCE ELECTIVE

The BSCE curriculum includes a three credit-hour basic science ("N" in each semester's Timetable of Courses) elective course. While there are many "N" courses available, the EnvE faculty recommends those from the following list. You can discuss alternatives with your advisor, however. A petition to substitute may be required.

Dept./No.	Course Title	Credit-Hours
ATMO 105	Intro. To Meteorology	3
ATMO/GEOG 521	Microclimatology	3
BIOL 150	Princ. Of Mole. & Cell.	3
BIOL 400	Princ. Of Microbiology	3
BIOL 414	Princ. Of Ecology	3
BIOL 660	Limnology and Aquatic Ecology	3
CHEM 646	Physical Chemistry I	3
CHEM 662	Organic Chemistry	3
GEOG 358	Princ. Of Geog. Info. Systems	3
GEOL 302	Oceangraphy	3
GEOL 351	Environmental Geology	3
GEOL 551	Engineering Geology	3

ENGINEERING SCIENCE ELECTIVES

The BSCE curriculum includes six credit-hours of engineering science electives intended to prepare you broadly for analytical challenges. You may choose your electives from the following list:

Dept./No.	Course Title	Credit-Hours
ME 312 or C&PE 221	Thermodynamics I	3
EECS 315	Electric Circuits	3
ARCE 350 or ME 306	Materials Science	3

HUMANITIES AND SOCIAL SCIENCE ELECTIVES

The BSCE curriculum requires at least nine credit-hours of humanities and social science (H&SS) electives. The student is required to complete one humanities course, one social science course, and a second humanities or social science course from the same department as the first. Some popular electives have been:

HUMANITIES ELECTIVE COURSES

Dept./No.	Course Title	Credit-Hours
ANTH 110/310	Introduction to Archaeology	4
ENGL 209	Introduction to Fiction	3
GEOG 111	Maps and Mapping	4
HIST 101	Introduction to History	3
HIST 137	History of Modern Science	3
HIST 340	History of World War II	3
PHIL	140	3

SOCIAL SCIENCE ELECTIVE COURSES

Dept./No.	Course Title	Credit-Hours
ANTH 100	General Anthropology	4
GEOG 100	World Regional Geography	3
GEOG 102	Principles of Human Geography	3
HDFL 140	Introduction to Principles of Behavior	3
LING/ANTH 106	Introduction to Linguistics	3
POLS 110	Introduction to U.S. Politics	3
PSYC 104	General Psychology	3
SOC 104	Elements of Sociology	3

GENERAL ELECTIVE

The BSCE/environmental-emphasis curriculum includes a four credit-hour general elective. You may choose from any of the extra courses listed in the curriculum, any humanities or social science, or from the following list:

Dept./No.	Course Title	Credit-Hours
CE ???	(TBA: EnvE design course recommendations)	3
ENGL 362	Technical or Business Writing	3
Foreign Language	(not in the student's native language)	3
ROTC lecture courses	Student must be commissioned upon graduation	3