

KU Civil Engineering Recommended Electives for the BSCE/civil-emphasis

While there are many required courses that all BSCE students complete, the SCE/civil-emphasis curriculum includes some elective courses too. These are in the basic sciences, humanities, social sciences, engineering sciences, and engineering design. Each semester an advisor will assist in the selection of courses that meet the degree requirements and 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 CE faculty recommends those from the following list. Alternatives can be discussed with an advisor. A petition to substitute may be required.

Dept./No.	Course Title	Credit-Hours
GEOL 101	Intro to Geology	3
GEOL 105	History of Earth	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. Electives may be chosen 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

CE DESIGN ELECTIVES

The BSCE/civil-concentration curriculum includes 16 credit-hours of civil engineering design courses. CE 562 and CE 563 are required and are already included in the BSCE/civil curriculum. Also required is one of the following "water" courses:

Dept./No.	Course Title	Credit-Hours
CE 552	Water Resource Design	4
CE 576	Water Supply & Sewage	4

The remaining six credit hours of CE design electives must come from the following list:

Dept./No.	Course Title	Credit-Hours
CMGT 400	Construction Management	3
CE 580 or 582	Transportation	3
CE 588	Foundation Engineering	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 110/330	Introduction to Archaeology	4
ENGL 209	Introduction to Fiction	3
GEOL 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	Introduction to Philosophy	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 ELECTIVES

The BSCE/civil-emphasis curriculum includes eight credit-hours of general electives. You may choose from the extra courses listed in the curriculum, any humanities or social science, or from the following list:

Dept./No.	Course Title	Credit-Hours
ENGL 362	Technical or Business Writing	3
Foreign Language	(not the student's native language)	3
ROTC Lecture courses	Student must be commissioned upon graduation	3