

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BS CE)
ENVIRONMENTAL ENGINEERING CONCENTRATION
THE UNIVERSITY OF KANSAS (KU)
For Fall 2015 and Later Matriculations**

Fall Semesters		<u>FIRST YEAR</u>		Spring Semesters	
CE 191*	Introduction to Civil Engineering	2	CE 192	Civil Engineering Graphics	3
ENGL 101 ^H	Composition (<i>KU Core: GE2.1</i>)	3	ENGL 102 ^H	Critical Reading and Writing (<i>GE2.1</i>)	3
MATH 125 ^H	Calculus I (<i>GE1.2</i>)	4	MATH 126 ^H	Calculus II	4
CHEM 150 ^H	Chemistry for Engineers (<i>GE3N</i>)	5	PHSX 210 ^H	General Physics I (<i>GE1.1</i>)	3
Elective ^H	Arts and Humanities (<i>GE3A&H</i>) ¹	<u>3</u>	PHSX 216 ^H	General Physics I Laboratory	1
		17	Elective ^H	Oral Communications (<i>GE2.2</i>)	<u>3</u>
					17
(*) Recommended but not required					
<u>SECOND YEAR</u>					
PHSX 212 ^H	General Physics II	3	ECON 104 ^H	Introductory Economics (<i>GE3S</i>)	4
PHSX 236 ^H	General Physics II Laboratory	1	CE 240	Geomatics	3
CE 301	Statics and Dynamics	5	CE 310	Strength of Materials	4
MATH 127 ^H	Calculus III	4	MATH 220 ^H	Applied Differential Equations	3
EECS 137	Visual Basic for Engineers	<u>3</u>	Elective ^H	Basic science	<u>3</u>
		16			17
<u>THIRD YEAR</u>					
CE 330 ^F	Fluid Mechanics	4	CE 455 ^S	Hydrology	3
CE 412 ²	Structural Engineering Materials		CE 477 ²	Intro. to Environ. Engr. and Science	
or		3	or		3
CE 477	Intro. to Environ. Engr. and Science		CE 484	Materials for Trans. Facilities	
CE 461	Structural Analysis	4	CE 487	Soil Mechanics	4
MATH 290 ^H	Elementary Linear Algebra	2	Elective	Basic engineering science	3
Elective ^H	Human Diversity (<i>AE4.1</i>) ¹	<u>3</u>	MATH 526	Applied Mathematical Statistics	<u>3</u>
		16			16
<u>FOURTH YEAR</u>					
CE 570 ^{H,2} /571 ^{H,2}	Environmental principles elective		CE 574 ^S /755 ^S / 757 ^{S,H}	Environmental design elective	
or		3	or		3
CE 775/560	Environmental design elective Water		CE 573 ^{H,2}	Biol. Principles of Environ. Engr.	
CE 552 ^F	Resources Engineering Design	4	CE 576 ^S	Mun. Water/Wastewater (<i>AE6.1</i>)	4
CMGT 457 ^F	Construction Project Management	3	CMGT 500 ^F	Civil engineering design elective	3
CE 562/563	Structural design elective	3	CE 582 ^F /588 ^S		
Elective ^H	Ethics/Social Responsibil. (<i>AE5.1</i>) ¹	3	Elective ^H	Global awareness (<i>AE4.2</i>) ¹	3
Required ³	Fundamentals of Engineering Exam	<u>0</u>	Electives ^H	General	<u>4</u>
		16			17

TOTAL CREDIT-HOURS = 132

¹ See the lists of acceptable General Education (GE) and Advanced Education (AE) *KU Core* courses via kucore.ku.edu.

² Select one of the two. Students are required to take CE 412 or CE 484. Take either CE 570 and CE 571 or CE 573.

³ Taking the Fundamentals of Engineering (FE) Exam is a requirement of this program for graduation.

^(F) Courses are only offered in the Fall Semesters. ^(S) Courses are only offered in the Spring Semesters.

^(H) Honors options available. Consult with your CEAE and University Honors Program advisors for details.