

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BS CE)
ENVIRONMENTAL ENGINEERING CONCENTRATION
THE UNIVERSITY OF KANSAS (KU)
For Fall 2019 and Later Matriculations**

Fall Semesters		<u>FIRST YEAR</u>		Spring Semesters	
CE 191*	Introduction to Civil Engineering	2	ARCE 217	Computer-Assisted Building Design	3
ENGL 101 ^H	Composition (<i>KU Core: GE21</i>)	3	ENGL 102 ^H	Critical Reading and Writing (<i>GE21</i>)	3
MATH 125 ^H	Calculus I (<i>GE12</i>)	4	MATH 126 ^H	Calculus II	4
CHEM 150 ^{F,H}	Chemistry for Engineers (<i>GE3N</i>)	5	PHSX 210 ^H	General Physics I (<i>GE11</i>)	3
Elective ^H	Basic Science ¹	<u>3</u>	PHSX 216 ^H	General Physics I Laboratory	1
		17	COMS 130 ^H	Speaker-Audience Comm. (<i>GE22</i>)	<u>3</u>
					17
(*) Highly recommended but not required					
<u>SECOND YEAR</u>					
CE 301	Statics and Dynamics	5	CE 240	Geomatics	3
MATH 127 ^H	Calculus III	4	CE 310 ^H	Strength of Materials	4
PHSX 212 ^H	General Physics II	3	EECS 137 or 138	Visual Basic for Engrs / Intro. to Computing	3
PHSX 236 ^H	General Physics II Laboratory	1	MATH 220 ^H	Applied Differential Equations	3
Elective ^H	Arts and Humanities (<i>GE3A&H</i>) ²	<u>3</u>	MATH 290 ^H	Elementary Linear Algebra	<u>2</u>
		16			15
<u>THIRD YEAR</u>					
CE 330/331 ^F	Fluid Mechanics/Lab	4	CE 455 ^S	Hydrology	3
CE 412 ^{3,F, H}	Structural Engineering Materials	3	CE 477 ^H	Intro. to Environ. Engr. and Science	3
or			or		
CE 477 ^H	Intro. to Environ. Engr. and Science	3	CE 484 ^{3,5,H}	Materials for Trans. Facilities	3
CE 461	Structural Analysis	4	CE 487	Soil Mechanics	4
MATH 526	Applied Mathematical Statistics	3	ECON 104	Introductory Economics	4
Elective ^H	Basic engineering science	<u>3</u>	or	(<i>GE3S</i>) or	
		17	ECON 142 ^H /144 ^H	Principles of Micro/Macro Econ.	3
			Elective ^H	Human Diversity (<i>AE41</i>)	<u>3</u>
					16 or 17
<u>FOURTH YEAR</u>					
CE 570 ^H	Environmental principles elective	3	Elective ^H	Environmental design elective	3
or			or		
CE 573 ^H	Biol. Principles of Environ. Engr.	3	CE 562/563	Structural design elective	3
Elective ^H	Environmental design elective	3	CE 576 ^S	Mun. Water/Wastewater (<i>AE61</i>)	4
or			CMGT 500 ^S	Civil engineering design elective	3
CE 562/563	Structural design elective	4	CE 582 ^F /588 ^S	Engineering Ethics (<i>AE51</i>) ⁴	3
CE 552 ^F	Water Resources Engineering Design	4	CE 610	General	0 or 1
CMGT 457 ^F	Construction Project Management	3	Electives ^H	Fundamentals of Engineering Exam	<u>0</u>
Elective ^H	Global awareness (<i>AE42</i>) ²	<u>3</u>	Required ⁵		
		16			13 or 14

TOTAL CREDIT-HOURS = 128

¹ Course must be designated as natural science (N) other than chemistry, mathematics, or physics. ² See the lists of acceptable General Education (GE) and Advanced Education (AE) *KU Core* courses via kucore.ku.edu. ³ All students must take CE 477 and either CE 412 or CE 484. ⁴ Other AE51 courses are also allowed. See footnote (2) above for more information. ⁵ 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.