

BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BS CE)
GENERAL CIVIL ENGINEERING CONCENTRATION (when MATH 104 is needed)
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 104	Precalculus Mathematics (<i>GE12</i>)	5	MATH 125 ^H	Calculus I (<i>GE12</i>)	4
Elective ^H	Basic Science ¹	3	EECS 137 or 138	Visual Basic for Engrs / Intro. to Computing	3
COMS 130 ^H	Speaker-Audience Comm. (<i>GE22</i>)	<u>3</u>	ECON 104 ^H	Introductory Economics	4
			or	(<i>GE3S</i>) or	} 4
			ECON 142 ^H /144 ^H	Principles of Micro/Macro Econ.	
(*) Highly recommended but not required		16			16 or 17
		<u>SECOND YEAR</u>			
CHEM 150 ^{F,H}	Chemistry for Engineers (<i>GE3N</i>)	5	CE 301	Statics and Dynamics	5
MATH 126 ^H	Calculus II	4	MATH 127 ^H	Calculus III	4
PHSX 210 ^H	Gen. Physics I for Engineers (<i>GE11</i>)	3	MATH 290 ^H	Elementary Linear Algebra	2
PHSX 216 ^H	General Physics I Laboratory	1	PHSX 212 ^H	General Physics II	3
Elective ^H	Arts and Humanities (<i>GE3A&H</i>) ²	<u>3</u>	PHSX 236 ^H	General Physics II Laboratory	1
		16	Elective ^H	Human Diversity (<i>AE41</i>) ²	<u>3</u>
					18
		<u>THIRD YEAR</u>			
CE 240	Geomatics	3	CE 455 ^S	Hydrology	3
CE 310 ^H	Strength of Materials	4	CE 461	Structural Analysis	4
CE 330/331 ^F	Fluid Mechanics/Lab	4	CE 480 ^S	Intro. to Transportation Engineering	3
CE 412 ^{3,F,H}	Structural Engineering Materials	} 3	CE 477	Intro. to Environ. Engr. & Sciences	} 3
or			or		
CE 477	Intro. to Environ. Engr. & Sciences		CE 484 ^{3,S,H}	Materials for Trans. Facilities	
MATH 220 ^H	Applied Differential Equations	<u>3</u>	CE 487	Soil Mechanics	<u>4</u>
		17			17
		<u>FOURTH YEAR</u>			
CE 562	Design of Steel Structures (<i>AE61</i>)	} 3	CE 562	Design of Steel Structures (<i>AE61</i>)	} 3
or			or		
CE 563	Design of Reinf. Concrete Structures		CE 563	Design of Reinf. Concrete Structures	
CE 610	Engineering Ethics (<i>AE51</i>) ⁵	3	Elective ^H	Basic engineering science	3
CMGT 457 ^F	Construction Project Management	3	Elective	Civil engineering design	3
MATH 526	Applied Mathematical Statistics	3	Elective	Civil engineering design	3
Elective ⁴	Civil engineering design	<u>4</u>	Elective ^H	Global Awareness (<i>AE42</i>) ²	3
			Elective ^H	General	1 or 2
			Required ⁶	Fundamentals of Engineering Exam	<u>0</u>
		16			16 or 17

TOTAL CREDIT-HOURS = 133

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 at kucore.ku.edu. ³ All students must take CE 477 and either CE 412 or CE 484. ⁴ One of these electives must be either CE 552^F or CE 576^S. ⁵ Other AE51 courses are also allowed. See footnote (2) above for more information. ⁶ 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.