

BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BS CE)
GENERAL CIVIL 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	4	MATH 126 ^H		Calculus II 4
CHEM 150 ^{F,H} Chemistry for Engineers (<i>GE3N</i>)	5	PHSX 210 ^H		Gen. Physics I for Engineers (<i>GE11</i>) 3
Elective ^H Basic Science ¹	<u>3</u>	PHSX 216 ^H		General Physics I Laboratory 1
		COMS 130 ^H		Speaker-Audience Comm. (<i>GE22</i>) <u>3</u>
(*) Highly recommended but not required.	17			17
<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	} 3	Intro. to Environ. Engr. & Sciences
or		or		Materials for Trans. Facilities
CE 477 Intro. to Environ. Engr. & Sciences	4	CE 484 ^{3,S,H}		Intro. to Transportation Engineering 3
CE 461 Structural Analysis	4	CE 480 ^S		Soil Mechanics 4
MATH 526 Applied Mathematical Statistics	3	CE 487		Introductory Economics 4
Elective ^H Basic engineering science	<u>3</u>	ECON 104		(<i>GE3S</i>) or } 4
	17	or		Principles of Micro/Macro Econ. <u>3</u>
		ECON 142 ^H /144 ^H		16 or 17
<u>FOURTH YEAR</u>				
CE 562 Design of Steel Structures (<i>AE61</i>)	} 3	CE 562	} 3	Design of Steel Structures (<i>AE61</i>)
or		or		Design of Reinf. Concrete Structures
CE 563 Design of Reinf. Concrete Structures	3	CE 563		Engineering Ethics (<i>AE51</i>) ⁵ 3
CMGT 457 ^F Construction Project Management	3	CE 610		Civil engineering design 3
Elective ⁴ Civil engineering design	4	Elective		Global Awareness (<i>AE42</i>) ² 3
Elective Civil engineering design	3	Elective ^H		General 1 or 2
Electives ^H Human Diversity (<i>AE41</i>)	<u>3</u>	Electives ^H		Fundamentals of Engineering Exam <u>0</u>
	16	Required ⁶		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 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.