

**BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BS CE)
GENERAL CIVIL ENGINEERING CONCENTRATION
THE UNIVERSITY OF KANSAS (KU)**

When MATH 104 is needed
For Fall 2015 and Later Matriculations

Fall Semesters		<u>FIRST YEAR</u>		Spring Semesters	
CE 191*	Introduction to Civil Engineering	2	EECS 137	Visual Basic for Engineers	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 104	Precalculus Mathematics	5	MATH 125 ^H	Calculus I (<i>GE1.2</i>)	4
CHEM 150 ^H	Chemistry for Engineers (<i>GE3N</i>)	5	Elective ^H	Basic Science	3
Elective ^H	Oral Communications (<i>GE2.2</i>)	<u>3</u>	Elective ^H	Arts and Humanities (<i>GE3A&H</i>) ¹	<u>3</u>
		18			16
(*) Recommended but not required					
<u>SECOND YEAR</u>					
CE 192	Civil Engineering Graphics	3	CE 240	Surveying	3
PHSX 210 ^H	General Physics I (<i>GE1.1</i>)	3	PHSX 212 ^H	General Physics II	3
PHSX 216 ^H	General Physics I Laboratory	1	PHSX 236 ^H	General Physics II Laboratory	1
MATH 126 ^H	Calculus II	4	MATH 127 ^H	Calculus III	4
ECON 104 ^H	Introductory Economics (<i>GE3S</i>)	4	CE 301	Statics and Dynamics	<u>5</u>
Elective ^H	Global awareness (<i>AE4.2</i>) ¹	<u>3</u>			16
		18			
<u>THIRD YEAR</u>					
CE 310	Strength of Materials	4	CE 455 ⁵	Hydrology	3
CE 330/331 ^F	Fluid Mechanics/Lab	4	CE 461	Structural Analysis	4
CE 412 ²	Structural Engineering Materials		CE 477	Intro. to Environ. Engr. & Sci.	
or		3	or		3
CE 477	Intro. to Environ. Engr. & Sci.		CE 484 ²	Materials for Trans. Facilities	
MATH 220 ^H	Applied Differential Equations	3	CE 480 ⁵	Intro. to Transportation Engineering	3
MATH 290 ^H	Elementary Linear Algebra	<u>2</u>	CE 487	Soil Mechanics	<u>4</u>
		16			17
<u>FOURTH YEAR</u>					
CE 562	Design of Steel Structures (<i>AE6.1</i>)		CE 562	Design of Steel Structures (<i>AE6.1</i>)	
or		3	or		3
CE 563	Design of Reinf. Concrete Structures		CE 563	Design of Reinf. Concrete Structures	
CMGT 457 ^F	Construction Project Management	3	MATH 526	Applied Mathematical Statistics	3
Elective ³	Civil engineering design	4	Elective ³	Civil engineering design	3
Elective	Basic engineering science	3	Elective ³	Civil engineering design	3
Electives ^H	General	5	Elective ^H	Ethics/Social Responsibil. (<i>AE5.1</i>) ¹	3
Required ⁴	Fundamentals of Engineering Exam	<u>0</u>	Elective ^H	Human Diversity (<i>AE4.1</i>) ¹	<u>3</u>
		18			18

TOTAL CREDIT-HOURS = 137

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, but CE 477 is not optional.

³ One of these electives must be either CE 552 or CE 576.

⁴ 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.