

Civil Engineering	Total Credit Hours	Terms:							
		1	2	3	4	5	6	7	8
<b>Subjects Required by all Programs (55 hours)</b>									
Mathematics 115, 116, 215, 216	16	4	4	4	4	-	-	-	-
Engineering 100, Introduction to Engineering	4	4	-	-	-	-	-	-	-
Engineering 101, Introduction to Computers	4	-	4	-	-	-	-	-	-
Chemistry 130 and 125/126 or Chemistry 210 and 211 <sup>1</sup>	5	5	-	-	-	-	-	-	-
Physics 140 with Lab 141 <sup>2</sup>	5	-	5	-	-	-	-	-	-
Physics 240 with Lab 241 <sup>2</sup>	5	-	-	5	-	-	-	-	-
Intellectual Breadth (includes Economics 101 or 102)	16	4	4	-	4	-	-	-	4
<b>Mathematical Methods (7 hours) +</b>									
CEE 303, Computational Methods	4	-	-	-	-	-	4	-	-
CEE 373, Statistical Methods	3	-	-	-	-	3	-	-	-
<b>Required Program Subjects (22 hours)<sup>3</sup> +</b>									
CEE 200, Intro to Civil and Environmental Engineering	1	-	-	-	1	-	-	-	-
CEE 211, Statics and Dynamics	4	-	-	4	-	-	-	-	-
CEE 212, Solid and Structural Mechanics	3	-	-	-	3	-	-	-	-
CEE 230, Thermodynamics and the Environment or CEE 375, Sensors and Circuits	3	-	-	3 or 3	-	-	-	-	-
CEE 265, Sustainable Engineering Principles	3	-	-	3 or 3	-	-	-	-	-
CEE 325, Fluid Mechanics	4	-	-	-	-	4	-	-	-
CEE 402, Professional Issues & Design*	4	-	-	-	-	-	-	-	4
<b>Science Elective (3 hours) +</b>									
Biology 171, 172, or 174	3	-	-	-	-	-	-	3	-
Earth & Environmental Sciences 119, 201, 222, 284, or 320									
CEE 482/582, Environmental Microbiology									
<b>Program Electives (24 hours)<sup>4</sup> +</b>									
CEE 312, Structural Engineering	24	-	-	-	-	8	8	8	-
CEE 331, Construction Management									
CEE 345, Geotechnical Engineering									
CEE 351, Civil Engineering Materials									
CEE 365, Environmental Engineering Principles									
CEE 421, Hydrology and Floodplain Hydraulics									
CEE 450, Transportation Engineering									
<b>Technical Electives (6 hours)<sup>5</sup> +</b>									
CEE 413, 415, 428, 435, 465, 480, 526, 534, 545, 546, 547, 551, 552, or 574	6	-	-	-	-	-	-	3	3
<b>General Electives (11 hours)</b>	11	-	-	-	-	-	4	3	4
<b>Total</b>	<b>128</b>	<b>17</b>	<b>17</b>	<b>16</b>	<b>15</b>	<b>15</b>	<b>16</b>	<b>17</b>	<b>15</b>

Candidates for the Bachelor of Science degree in Engineering (Civil Engineering) - B.S.E. (C.E.) - must complete the program listed above.

This sample schedule is an example of one leading to graduation in eight terms.

**Notes:**

**Fall Winter**

(+) Civil Engineering students must earn a C- or better in all courses whose categories are marked with a plus.

<sup>1</sup> If you have a satisfactory score or grade in Chemistry AP, A-Level, IB Exams, or transfer credit from another institution for Chemistry 130/125/126, you will have met the Chemistry Core Requirement for the College of Engineering

<sup>2</sup> If you have a satisfactory score or grade in Physics AP, A-Level, IB Exams, or transfer credit from another institution for Physics 140/141 and 240/241, you will have met the Physics Core Requirement for the College of Engineering.

<sup>3</sup> CEE may accept equivalent courses offered by other departments in the College of Engineering. Please see program advisor.

<sup>4</sup> At least six of the seven program electives are required.

<sup>5</sup> A seventh program elective can count as a technical elective.

\* CEE 402 must be taken in last Winter semester.

Subject	Prerequisite(s)	Must Be Taken Before	Semester(s) Offered
<b>College Requirements</b>			
Math 115		Math 116	Fall, Winter, Spring, Summer
Math 116	Math 115	Math 215, CEE 230, CEE 265	Fall, Winter, Spring, Summer
Math 215	Math 116	Math 216	Fall, Winter, Spring, Summer
Math 216	Math 116	CEE 303, CEE 373	Fall, Winter, Spring, Summer
Engr 100			Fall, Winter
Engr 101	Math 115	CEE 303	Fall, Winter
Chem 130		CEE 230, CEE 265	Fall, Winter, Spring
Chem 125/126		CEE 230, CEE 581	Fall, Winter, Spring
Phys 140/141	Math 115	CEE 211	Fall, Winter, Spring
Phys 240/241	Physics 140, Math 116		Fall, Winter, Spring
<b>Mathematical Methods</b>			
CEE 303	Math 216, Engr 101	CEE 421	Winter
CEE 373	Math 215, Math 216	CEE 552	Fall
<b>Required Program Subjects</b>			
CEE 200			Fall, Winter
CEE 211	Physics 140	CEE 212, CEE 325	Fall, Winter
CEE 212	CEE 211	CEE 312, CEE 345, CEE 351	Fall, Winter
CEE 230	Math 116, Chem 130 & 125/126		Fall
CEE 265	Math 116, Chem 130	CEE 365	Fall, Winter
CEE 325	CEE 211	CEE 421	Fall, Winter
CEE 375	Physics 240		Winter
CEE 402	Senior standing		Winter
<b>Program Electives</b>			
CEE 312	CEE 212	CEE 413, CEE 415	Fall
CEE 331	Junior standing		Winter
CEE 345	CEE 212	CEE 545, 546	Fall, Winter
CEE 351	CEE 212		Fall, Winter
CEE 365	Chem 130, Math 116	CEE 465	Fall
CEE 421	CEE 303, CEE 325	CEE 521	Fall
CEE 450	Math 215, Physics 240	CEE 551, CEE 552	Winter
<b>Technical Electives</b>			
CEE 435	CEE 331		Fall
CEE 534	CEE 331		Winter
CEE 413	CEE 312		Fall
CEE 415	CEE 312		Winter
CEE 547	CEE 345		Fall
CEE 574	CEE 212		Winter
CEE 545	CEE 345		Fall
CEE 546	CEE 345		Winter
CEE 428	CEE 265, CEE 325		Fall
CEE 526	CEE 325		Winter
CEE 465	CEE 325, CEE 365	CEE 480	Winter
CEE 480	CEE 465		Fall
CEE 551	CEE 450		Fall
CEE 552	CEE 373, CEE 450		Winter