

Civil Engineering	Total	Terms:							
	Credit Hours	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 (26 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 345, Geotechnical Engineering	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 (16 hours)<sup>4</sup> +</b>									
CEE 312, Structural Engineering	16	-	-	-	-	4	8	4	-
CEE 351, Civil Engineering Materials									
CEE 365, Environmental Engineering Principles									
CEE 421, Hydrology and Floodplain Hydraulics									
CEE 431, Construction Contracting									
<b>Technical Electives (9 hours)<sup>5</sup> +</b>									
Construction: CEE 534, CEE 536, CEE 537	9	-	-	-	-	-	-	6	3
Structural: CEE 413*, CEE 415*, CEE 412									
Materials: CEE 547*, CEE 574*									
Geotechnical: CEE 540, CEE 545, CEE 546, CEE 549									
Hydraulics/Hydrology: CEE 526*, CEE 428, CEE 521, CEE 522									
Environmental: CEE 465*, CEE 480, CEE 481/581, CEE 482/582									
Transportation: CEE 450									
<b>General Electives (12 hours)</b>	12	-	-	-	-	-	4	4	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.

\* Mandatory Course in that focus area.

<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 four of the five program electives are required.

<sup>5</sup> At least two of the three technical electives must be in the same focus area.

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	Fall, Winter, Spring, Summer
Engr 100			Fall, Winter
Engr 101	Math 115	CEE 303, CEE 373	Fall, Winter
Chem 130		CEE 230, CEE 265	Fall, Winter, Spring
Chem 125/126		CEE 581	Fall, Winter, Spring
Phys 140/141	Math 115	CEE 211	Fall, Winter, Spring
Phys 240/241	Phys 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		Fall
<b>Required Program Subjects</b>			
CEE 200			Fall, Winter
CEE 211	Phys 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 345	CEE 212	CEE 540, CEE 545, CEE 546, CEE 549	Fall, Winter
CEE 375	Phys 240		Winter
CEE 402	Senior standing		Winter
<b>Program Electives</b>			
CEE 312	CEE 212	CEE 413, CEE 415, CEE 512	Fall
CEE 351	CEE 212	CEE 537	Fall, Winter
CEE 365	Chem 130, Math 116	CEE 465	Fall
CEE 421	CEE 303, CEE 325	CEE 521	Fall
CEE 431	Senior standing		Fall, Winter
<b>Technical Electives</b>			
Construction			
CEE 534	Junior standing		Winter
CEE 536	Senior standing		Fall
CEE 537	CEE 351		Fall
CEE 539	Senior standing		Fall
Structural			
CEE 413	CEE 312		Fall
CEE 415	CEE 312		Winter
CEE 412	CEE 312		Fall
Materials			
CEE 547	CEE 345		Fall
CEE 574	CEE 212		Fall
Geotechnical			
CEE 540	CEE 345		Fall
CEE 545	CEE 345		Fall
CEE 546	CEE 345		Winter
CEE 549	CEE 345		Winter
Hydraulics/Hydrology			
CEE 526	CEE 325		Winter
CEE 428	CEE 265, CEE 325		Fall
CEE 521	CEE 421		Fall
CEE 522	CEE 325		Fall
Environmental			
CEE 465	CEE 325, CEE 365	CEE 480	Winter
CEE 480	CEE 465		Fall
CEE 481/581	Chem 130		Winter
CEE 482/582	Chem 130		Fall
Transportation			
CEE 450	Math 215, Physics 240		Winter