

**Civil Engineering Sample Schedule**

Credit Hours	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	Term 7	Term 8	
<b>Subjects Required by all Programs (55 hours)</b>									
MATH 115, 116, 215, 216	16	4	4	4	4	-	-	-	-
ENGR 100, Intro to Engineering	4	4	-	-	-	-	-	-	-
ENGR 101, Intro to Computers	4	-	4	-	-	-	-	-	-
CHEM 130 & 125/126 or CHEM 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 ECON 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 & 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 <sup>6</sup>	4	-	-	-	-	-	-	-	4
<b>Science Elective (3 hours) +</b>									
Biology 171 or 172									
EARTH 119, 201, 222, 284, or 320	3	-	-	-	-	-	-	3	-
CEE 482/582, Environmental Microbiology									
<b>Program Electives (24 hours)<sup>4</sup> +</b>									
CEE 312, Structural Engineering									
CEE 331, Construction Management									
CEE 345, Geotechnical Engineering									
CEE 351, Civil Engineering Materials	24	-	-	-	-	8	8	8	-
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, 537, 545, 546, 547, 551, 552	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>

**Notes:** Courses offered only in the **fall** term are purple. Courses offered only in the **winter** term are green.

(+) 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 CHEM 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, with permission from the program advisor.

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

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

<sup>6</sup>- CEE 402 must be taken in the last Winter semester.

<b>Civil Engineering BSE</b>			
<b>Subject</b>	<b>Prerequisite(s)</b>	<b>Must Be Taken Before</b>	<b>Term(s) Offered</b>
<b>College Requirements</b>			
MATH 115		MATH 116, PHYSICS 140	Fall, Winter, Spring, Summer
MATH 116	MATH 115	MATH 215, 216; PHYSICS 240; CEE 230, CEE 265	Fall, Winter, Spring, Summer
MATH 215	MATH 116	CEE 373, CEE 450	Fall, Winter, Spring, Summer
MATH 216	MATH 116	CEE 303, CEE 373	Fall, Winter, Spring, Summer
ENGR 100			Fall, Winter
ENGR 101	Prior or concurrent enrollment in MATH 115	CEE 303	Fall, Winter
CHEM 130		CEE 230, CEE 265	Fall, Winter, Spring
CHEM 125/126		CEE 230	Fall, Winter, Spring
PHYSICS 140/141	MATH 115	CEE 211, PHYSICS 240	Fall, Winter, Spring
PHYSICS 240/241	PHYSICS 140, MATH 116	CEE 375, CEE 450	Fall, Winter, Spring
<b>Mathematical Methods</b>			
CEE 303	MATH 215, 216; ENGR 101	CEE 421	Winter
CEE 373	MATH 215, MATH 216 <sup>C or better</sup>	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, CEE 574	Fall, Winter
CEE 230	MATH 116, CHEM 130 & 125/126 or CHEM 210 & 211		Fall
CEE 265	MATH 116, CHEM 130	CEE 365	Fall, Winter
CEE 325	CEE 211	CEE 421, CEE 428, CEE 465, CEE 526	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	CEE 435, CEE 534	Winter
CEE 345	PHYSICS 140	CEE 545, CEE 546, CEE 547	Fall, Winter
CEE 351	CEE 212		Fall, Winter
CEE 365	CHEM 130, MATH 116, CEE 265	CEE 465	Fall
CEE 421	CEE 303, CEE 325		Fall
CEE 450	CEE 373, MATH 215, <sup>C or better</sup>	CEE 551, CEE 552	Winter
<b>Technical Electives</b>			
CEE 413	CEE 312		Fall
CEE 415	CEE 312		Winter
CEE 428	CEE 325, (CEE 345 or CEE 366)		Fall
CEE 435	CEE 331 <sup>C or better</sup>		Fall
CEE 465	CEE 325, CEE 365	CEE 480	Fall
CEE 480	CEE 465		Fall
CEE 526	CEE 325		Winter
CEE 534	CEE 331, Junior Standing		Winter
CEE 537	CEE 331 and CEE 351		Winter
CEE 545	CEE 345		Fall
CEE 546	CEE 345		Winter
CEE 547	CEE 345		Fall
CEE 551	CEE 450 <sup>C or better</sup>		Fall
CEE 552	CEE 373, CEE 450 <sup>C or better</sup>		Fall

Unless otherwise noted, a grade of C- is required for prerequisites.