

# DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING



## Civil Engineering - Degree Program Sequence

Fall 2015

### FRESHMAN YEAR

First Semester	Sem	Gr	Hours	Second Semester	Sem	Gr	Hours
ENGL 1123 - Freshman Composition I			3	ENGL 1143 - Technical Writing			3
MATH 1124 - Calculus I			4	Math 2024 - Calculus II			4
GNEG 1121 - Engr. Appl. Lab II for Math			1	GNEG 2021 - Engr. Appl. Lab III for Math			1
CHEM 1034 - Chemistry for Engineers			4	ELEG 1043 - Computer Appl. In Engineering			3
CHEM 1021 - Inorganic Chem. Lab II			1	PHYS 2513 - University Physics I			3
CVEG 1011 - Intro Engr CS Tech			1	PHYS 2511 - University Physics Lab I			1
CVEG 1021 - Intro CVEG Lab			1	CVEG 2001 - Emerging Issues in CE			1
			0				0
<b>Total</b>			<b>15</b>	<b>Total</b>			<b>16</b>

### SUMMER

First Semester	Hours	Sem	Gr
*GNEG 2156 Engineering Cooperative Education I	6		
<b>Total</b>	<b>6</b>		

### SOPHOMORE YEAR

First Semester	Sem	Gr	Hours	Second Semester	Sem	Gr	Hours
MATH 2043 - Differential Equations I			3	ELEG 2053 - Intro. to Elec. Engineering			3
PHYS 2523 - University Physics II			3	MCEG 2013 - Thermodynamics			3
PHYS 2521 - University Physics II Lab			1	MATH 3023 - Probability and Statistics			3
CHEG 2003 - Eco Anal Tech Appl.			3	CVEG 2063 - Mech. of Materials			3
CVEG 2043 - Engineering Mechanics I			3	<a href="#">CVEG 2061 – Materials &amp; Dynamics Lab</a>			1
COMM 1003 - Fund. of Speech Comm.			3	CVEG 3053 - Transportation Engineering			3
<a href="#">CVEG 2081 – Surveying &amp; Geospatial Concepts</a>			1				
<b>Total</b>			<b>17</b>	<b>Total</b>			<b>16</b>

### SUMMER

First Semester	Hours	Sem	Gr
*CVEG 3156 Civil Engineering Internship I	6		
<b>Total</b>	<b>6</b>		

### JUNIOR YEAR

First Semester	Sem	Gr	Hours	Second Semester	Sem	Gr	Hours
MATH 4173 - Advanced Math for Engineers			3	CVEG 3023 - Geotechnical Engineering			3
CVEG 3073 - Structural Analysis			3	CVEG 3083 - Steel Design			3
Basic Science Elective (BIOL Elective <sup>**</sup> )			3	POSC 1113 - American Government I			3
CVEG 4053 - Transportation Engr. Design			3	CVEG 3043 - Environmental Engineering			3
<a href="#">CVEG 3031 - Concrete &amp; Steel Lab</a>			1	CVEG 4063 - Water Resources Engineering			3
CVEG 3063 – Hydraulics			3	<a href="#">CVEG 4141 - Engineering Mgmt &amp; Ethics</a>			1
<b>Total</b>			<b>16</b>	<b>Total</b>			<b>16</b>

### SUMMER

First Semester	Hours	Sem	Gr
*CVEG 4156 Civil Engineering Internship II	6		
<b>Total</b>	<b>6</b>		

### SENIOR YEAR

First Semester	Sem	Gr	Hours	Second Semester	Sem	Gr	Hours
CVEG 4013 - Reinforced Concrete			3	HIST 1323 - U.S. 1876 to Present			3
CVEG 3051 – Prof. Engineering			1	Creative Arts Elective			3
CVEG 4043 - Environmental Engr. Design			3	CVEG 4482 - Sr. Design & Prof II			2
CVEG 4472 - Sr. Design & Professionalism I			2	Language, Philosophy & Culture Elective			3
<a href="#">CVEG 4021 - Geotech Engineering Design Lab</a>			1	<a href="#">Technical Elective (CVEG or Other)</a>			3
HIST 1313 - U.S. to 1876			3	POSC 1123 - American Government II			3
<a href="#">CVEG 4072 – Systems Engineering and Uncertainty</a>			2				
<b>Total</b>			<b>15</b>	<b>Total</b>			<b>17</b>

\*Course may be taken for credit during summer internship, but is not required in degree plan.

\*\*BIOL 1073, 1113, or BIOL 1123 or other basic science course with the approval of the Department Head.

**Total Hours = 128**