

DEPARTMENT OF CIVIL & ENVIRONMENTAL ENGINEERING



Civil Engineering - Degree Program Sequence

Fall 2019

FRESHMAN YEAR

<i>First Semester</i>	<i>Sem</i>	<i>Gr</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Sem</i>	<i>Gr</i>	<i>Hours</i>
ENGL 1123 - Freshman Composition I			3	ENGL 1143 - Technical Writing			3
MATH 1124 - Calculus I			4	MATH 2024 - Calculus II			4
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 2073 – Global Development Issues##			3
BIOL elective [BIOL 1073, 1113, 1123]**			3				
Total			17	Total			17

SUMMER

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

SOPHOMORE YEAR

<i>First Semester</i>	<i>Sem</i>	<i>Gr</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Sem</i>	<i>Gr</i>	<i>Hours</i>
MATH 2043 - Differential Equations I			3	ELEG 2053 - Intro. to Elec. Engineering			3
PHYS 2523 - University Physics II			3	MCEG 2013 - Thermal Science			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	CVEG 2061 – Materials & Dynamics Lab			1
COMM 1003 - Fund. of Speech Comm.			3	CVEG 3053 - Transportation Engineering			3
CVEG 2081 - Surveying & Geospatial Concepts.			1				
Total			17	Total			16

SUMMER

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

JUNIOR YEAR

<i>First Semester</i>	<i>Sem</i>	<i>Gr</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Sem</i>	<i>Gr</i>	<i>Hours</i>
MATH 4173 - Advanced Math for Engineers			3	CVEG 3023 - Geotechnical Engineering			3
CVEG 3073 - Structural Analysis			3	CVEG 3083 - Steel Design			3
Language, Philosophy & Culture Elective			3	CVEG 4093 - Systems Engineering			3
CVEG 4053 - Transportation Engr. Design			3	CVEG 3043 - Environmental Engineering			3
CVEG 3031 - Concrete & Steel Lab			1	CVEG 4063 - Water Resources Engineering			3
CVEG 3063 – Hydraulics			3				
Total			16	Total			15

SUMMER

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

SENIOR YEAR

<i>First Semester</i>	<i>Sem</i>	<i>Gr</i>	<i>Hours</i>	<i>Second Semester</i>	<i>Sem</i>	<i>Gr</i>	<i>Hours</i>
CVEG 4013 - Reinforced Concrete			3	HIST 1323 - U.S. 1876 to Present			3
CVEG 3051 – Professional Engineering I			1	Creative Arts Elective			3
CVEG 4043 - Environmental Engr. Design			3	CVEG 4482 - Sr. Des. & Professionalism II			2
CVEG 4472 - Sr. Design & Professionalism I			2	POSC 1123 - American Government II			3
CVEG 4021 - Geotech Engineering Design Lab			1	APRVD Technical Elective (CVEG or Other)			3
HIST 1313 - U.S. to 1876			3				
POSC 1113 - American Government I			3				
Total			16	Total			14

*Course may be taken for credit during summer internship, but is not required in Degree Plan.

**Or other basic science course approved by the Department Head.

##PVAMU CORE course offered by Program

Total Hours = 128