

**Bachelor of Science in Civil Engineering  
2022-2023**

**Freshman Year**

<b>Fall Semester</b>	<b>Hrs</b>	<b>Spring Semester</b>	<b>Hrs</b>
BIOL 1003, Biological Science OR BIOL 1063, People and the Environment	3	CHEM 1011, Lab. for General Chemistry I CHEM 1013, General Chemistry I	1 3
COMS 1203, Oral Communications	3	ENG 1013, Composition II	3
ENG 1003, Composition I	3	ENGR 1412, Software Applications for Engineers	2
ENGR 1402, Concepts of Engineering	2	MATH 2214, Calculus II	4
MATH 2204, Calculus I	4	PHYS 2034, University Physics I	4
	<hr/> 15		<hr/> 17

**Sophomore Year**

<b>Fall Semester</b>	<b>Hrs</b>	<b>Spring Semester</b>	<b>Hrs</b>
CE 2223, Plane Surveying	3	CE 2202, C.E. Presentations	2
CE 3263, Intro to Environmental	3	CE 3213, Structural Analysis I	3
ENGR 2403, Statics	3	ENGR 2401, Applied Engineering Statistics	1
MATH 3254, Calculus III	4	ENGR 2411, Lab. for Mechanics of Materials	1
+ Science Elective	4	ENGR 2413, Mechanics of Materials	3
		ENGR 3471, Lab. for Fluid Mechanics	1
		ENGR 3473, Fluid Mechanics	3
		MATH 4403, Differential Equations	3
	<hr/> 17		<hr/> 17

**Junior Year**

<b>Fall Semester</b>	<b>Hrs</b>	<b>Spring Semester</b>	<b>Hrs</b>
CE 3224, C.E. Materials	4	CE 3253, Engineering Hydrology	3
*CE 3233, Structural Analysis II OR ++Humanities Elective	3	CE 4251, Lab. for Soil Mechanics	1
ENGR 3433, Engineering Economics	3	CE 4253, Soil Mechanics	3
ENGR 3443, Engineering Thermo. I OR ENGR 2423, Electric Circuits I	3	CE 4283, Structural Steel Design	3
ENGR 4453, Num. Meth. for Engineers	3	ENGR 3423, Dynamics	3
		++Social Science Elective	3
	<hr/> 16		<hr/> 16

**Senior Year**

<b>Fall Semester</b>	<b>Hrs</b>	<b>Spring Semester</b>	<b>Hrs</b>
CE 3273, Water and Waste Systems	3	CE 4223, Transportation Engineering II	3
CE 4203, Transportation Engineering I	3	**CE Elective	3
CE 4233, Foundation Engineering	3	ENGR 4482, Senior Design II	2
CE 4243, Reinforced Concrete	3	++Fine Arts Elective	3
ENGR 4401, Senior Seminar	1	++Humanities Elective OR	
ENGR 4463, Senior Design I	3	*CE 4263, Water and Waste Treatment	3
	<hr/> 16		<hr/> 14
		Total	<hr/> 128

\*Students must take one of either CE 3233 OR CE 4263. Only 1 Humanities Elective (3 hrs total) req'd for all students.

\*\* CE 3233 Structural Analysis II OR CE 4263 Water and Waste Treatment OR CE 4803 Open-Channel Flow OR CE 4813 Groundwater Hydrology OR CE 4823 Earthquake Engineering OR CE 4893 Sustainability and Water Resources OR SUR 4023 Advanced Surveying (see bulletin for semester of offering on available electives)

++See reverse side for listing of courses to fulfill general education requirements

+CHEM 1023 General Chemistry II and CHEM 1021 Lab. for Gen. Chem. II or GEOL 1003 Environmental Geology and GEOL 1001 Lab. for Env. Geol. or PHYS 2044 University Physics II

