




# B.S. CIVIL ENGINEERING

## Plan of Study (Minor in Environmental Eng.)

Year 1	<b>Fall</b>		<b>Spring</b>
	FYEX Foundation for College Success		
	<b>ENGR 100</b> Introduction to Engineering Design + <b>ENGR 162</b> Intro to Eng. Graphics (3 Cr.)		<b>DASC 120</b> Statistics I (Lab)
	<b>MATH 113</b> Calculus I		<b>MATH 114</b> Calculus II
	<b>GEOL 163</b> Applied Geology (Lab)		<b>PHYS 211</b> Classical Physics I
	CORE requirement		CORE requirement
	<b>January-term</b>		<b>Summer</b>
CORE requirement			
Year 2	<b>Fall</b>		<b>Spring</b>
	<b>ENGR 160</b> Surveying (2 Cr.)		
	<b>ENGR 220</b> Statics		<b>ENGR 221</b> Mechanics of Materials (Lab)
	<b>MATH 210</b> Introduction to Differential Equations & Systems		<b>SCI/MATH</b> Elective (4 Cr.) (Use <b>BIOL 209</b> , <b>CHEM 112</b> , or <b>GEOL 211</b> )
	<b>CHEM 109</b> General Chemistry for Engineers (Lab) (Use <b>CHEM 111</b> if using <b>CHEM 112</b> later)		<b>ENGR 368</b> Fluids Mechanics for Civil Engineering (Lab)
	CORE requirement		CORE requirement
	<b>January-term</b>		<b>Summer</b>
CORE requirement			
Year 3	<b>Fall</b>		<b>Spring</b>
	<b>ENGR 362</b> Construction & Engineering Economic Analysis (Lab)		<b>CIVIL</b> Major Course
	<b>CIVIL</b> Major Course		<b>CIVIL</b> Major Course
	<b>CIVIL</b> Major Course		<b>CIVIL</b> Major Course
	CORE requirement		CORE requirement
			<b>GEOL 231</b> Applied Environmental Policy (2 cr.)
	<b>January-term</b>		<b>Summer</b>
CORE requirement			
Year 4	<b>Fall</b>		<b>Spring</b>
	<b>CIVIL</b> Major Course		<b>CIVIL</b> Major Course
	<b>ESCI 310</b> Environmental Problem Solving (Lab)		<b>ENGR 473+479</b> Water and Wastewater Treatment (fulfills engineering elective)
	<b>ENGR 480</b> Design Clinic I		<b>ENGR 481</b> Design Clinic II
	CORE requirement		CORE requirement
	<b>January-term</b>		<b>Summer</b>

REFERENCE THE GENERAL PLAN OF STUDY FOR CURRICULUM REQUIREMENTS AND COURSE OFFERINGS

# B.S. CIVIL ENGINEERING

## Plan of Study (Minor in Environmental Eng.)

### Minor in Environmental Engineering

The environmental engineering minor serves students who want additional support for an environmental engineering career or graduate school. Core courses cover environmental engineering applications, systems thinking, and environmental policy, with additional course options related to biology, geochemistry, thermodynamics, hydrogeology, and water treatment. This minor is intended for students from civil or mechanical engineering, environmental science, or earth sciences but is open to other students as well.

Required: 4 courses (12 credits)

- ENGR 468 Environmental Engineering (4 credits)
- ESCI 310 Environmental Problem Solving (4 credits)
- GEOL 231 Applied Environmental Policy (2 credits)
- One of two treatment design courses:
  - ENGR 473 Water Treatment (2 credits)
  - ENGR 479 Wastewater Treatment (2 credits)

Required: Choose 4 additional credits of from courses:

- ENGR 467 Water Resources Engineering (4 credits)
- ENGR 381 Thermodynamics (4 credits) or other thermodynamics
- GEOL 310 Environmental Geochemistry (4 credits)
- GEOL 410 Hydrogeology (4 credits)
- ENGR 488 Air Quality (2 credits)
- The other treatment design course: (ENGR 473 or 479) (2 credits)

If you have a math/science elective within your major, it's recommended to take either:

- BIOL 209 Biology of Sustainability (4 credits) or
- CHEM 111/112 Chemistry I/II instead of CHEM 109 Chemistry for Engineers