

# ENVIRONMENTAL ENGINEERING MINOR

This minor can significantly enhance and strengthen the educational experience of students to provide a firm basis for understanding the impact of human activity and pollutants on the environment as well as the need for environmentally sound manufacturing processes and sustainable development.

## Requirements

It requires completion of 18 credits including the following:

Course	Title	Credits
An approved Plan of Study		
ENVE/CE 2310E	Environmental Engineering Fundamentals	3
ENVE 3220	Water Quality Engineering	3
ENVE 3230	Air Pollution Control	3
ENVE 4310	Environmental Modeling	3
Select six credits from one of the following options: 6		
Option 1		
Any 3000 level or higher ENVE courses		
Option 2		
ARE 2434E	Environmental and Resource Policy	
AH 3275	HAZWOPER	
ARE 4462E	Environmental and Resource Economics	
CE 2410	Introduction to Geospatial Analysis and Measurement	
CE 2411	Introduction to Computer Aided Design	
CE 2412		
CE 2500	Introduction to Geographic Information Systems	
CE 3220	Principles of Construction I	
CE 3510	Soil Mechanics	
CE 4210	Operations Research in Civil and Environmental Engineering	
CE 4410	Computer Aided Site Design	
CHEG 3151	Process Kinetics	
CHEG 4147	Process Dynamics and Control	
CHEM 2241	Organic Chemistry	
CHEM 2443	Organic Chemistry	
CHEM 4370	Environmental Chemistry - Atmosphere	
EEB 3205E	Current Issues in Environmental Science	
GEOG 3320W	Environmental Evaluation and Assessment	
GEOG 3340	Environmental Planning and Management	
GEOG 3400	Climate and Weather	
LAND 3230WE	Sustainable Environmental Planning and Landscape Design	
MARN 3030	Coastal Pollution and Bioremediation	
MARN 4030W	Chemical Oceanography	
ME 3239	Combustion for Energy Conversion	
ME 3263	Introduction to Sensors and Data Analysis	
ME 3270	Fuel Cells	
ME 3285	Sustainable Energy Sources and Systems	

MEM 2221	
NRE 3105	Wetlands Biology and Conservation
NRE 3125	Watershed Hydrology
NRE 3145	Meteorology
NRE 3146	Climatology
NRE 3245E	Environmental Law
NRE 3535	Remote Sensing of the Environment
NRE 4135	Introduction to Ground Water Hydrology
NRE 4165	
NRE 4205	Stream Ecology
NRE 4255	Water Quality Management
NRE 4340	Ecotoxicology
OPIM 3603	Project Management and Planning

**Total Credits** **18**

No substitutions are allowed in the Environmental Engineering Minor. All students must fulfill the appropriate prerequisites of all required courses.

The minor is offered by the Environmental Engineering Program.