



## Safeguarding The Future

Environmental engineering applies scientific principles and engineering tools to improve the natural environment, address pollution problems, and ensure environmental sustainability. Environmental engineers provide safe drinking water, treat and dispose of hazardous wastes, clean up contaminated soil and groundwater, and maintain the quality of air, water, and land resources.

Our strong core curriculum provides students with rigorous training in the causes, control, and prevention of environmental contamination and the flexibility to secure their future in an environmental profession. Students learn to understand the fate of environmental contaminants, analysis and design of solutions to real-world environmental problems, and the application of modeling and simulation methods to assess risk and estimate cost.

Active research ensures that the content of the curriculum is constantly renewed and maintained at a technically challenging level and that discovery learning is integrated into the program. Opportunities abound for environmental engineering undergraduates to work with faculty and graduate students in our world-class research program. Roughly two-thirds of our students work as research assistants.

## CAREER PATHS:

Environmental Engineer  
Environmental Compliance  
Water Resources Engineer  
Water/Air Quality Engineer  
Soil Remediation  
Civil Site Engineer  
Engineering Management *and more!*

## GRADUATE SCHOOL FOR:

Civil Engineering  
Environmental Engineering  
Engineering Management  
Public Policy & Administration  
MBA *and more!*

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## Areas of Study

- Environmental processes
- Biological processes
- Chemical processes
- Environmental facilities design & construction
- Water resources
- Water quality

## Two degrees at once

Well-qualified Environmental Engineering majors may apply to the 4+1 program to earn a bachelor's degree in Environmental Engineering (BEnE) and a Master of Civil Engineering (MCE) degree within 5 years.

## Real-world experience

An optional co-op program provides students the opportunity to gain valuable experience working in the profession while completing their degree. With careful planning and proper selection of courses, students can work full-time for up to 26 weeks and still graduate in four years.

## Environmental Engineering Curriculum:

To earn a bachelor's degree, students must complete 126 credits and meet specific requirements as outlined in the online catalog. See UD Catalog for additional details.

### FIRST YEAR

FALL	Credits	SPRING	Credits
EGGG 101 - Introduction to Engineering (FYE)	2	CIEG 133 - Introduction to Environmental Engineering	3
CHEM 103 - General Chemistry	4	CHEM 104 - General Chemistry	4
MATH 241 - Analytic Geometry & Calculus A	4	MATH 242 - Analytic Geometry & Calculus B	4
CISC 106 - General Computer Science for Engineers	3	ENGL 110 - Seminar in Composition	3
Breadth Requirement Elective 1	3	Breadth Requirement Elective 2	3
<b>Total Credits: 16</b>		<b>Total Credits: 17</b>	

### SECOND YEAR

FALL	Credits	SPRING	Credits
CIEG 211 - Statics	3	CIEG 315 - Probability and Statistics for Engineers	3
PHYS 207 - Fundamentals of Physics I	4	BISC 207 - Introductory Biology I	4
MATH 243 - Analytic Geometry & Calculus C	4	MATH 351 - Engineering Mathematics I	3
CIEG 233 - Environmental Engineering Processes	3	CIEG 333 - Thermodynamics for Environmental Engineers	3
Breadth Requirement Elective 3	3	Computer Elective	3
<b>Total Credits: 17</b>		<b>Total Credits: 16</b>	

### THIRD YEAR

FALL	Credits	SPRING	Credits
CIEG 305 - Fluid Mechanics	3	CIEG 437 - Water and Wastewater Quality	3
CEIG 306 - Fluid Mechanics Lab	1	CIEG 438 - Water and Wastewater Engineering	3
CIEG 440 - Water Resources Engineering	3	ENGL 410 - Technical Writing*	3
CIEG 444 - Microbiology of Engineered Systems	4	Technical Elective 1	3
CIEG 321 - Organic Chemistry I	3	Breadth Requirement Elective 5	3
Breadth Requirement Elective 4	3		
<b>Total Credits: 17</b>		<b>Total Credits: 15</b>	

### FOURTH YEAR

FALL	Credits	SPRING	Credits
CIEG 461 - Senior Design Project (DLE & Capstone)	2	CIEG 461 - Senior Design Project (DLE)	2
CIEG 436 - Processing, Recycl., Mgt. of Solid Wastes	3	Air Pollution Course	3
CIEG 337 - Environmental Engineering Lab	3	Groundwater Course	3
Surface Water Course	3	Technical Elective 3	3
Technical Elective 2	3	Technical Elective 4	3
<b>Total Credits: 14</b>		<b>Total Credits: 14</b>	

## CONTACT US:

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