



College of Engineering
ENVIRONMENTAL ENGINEERING

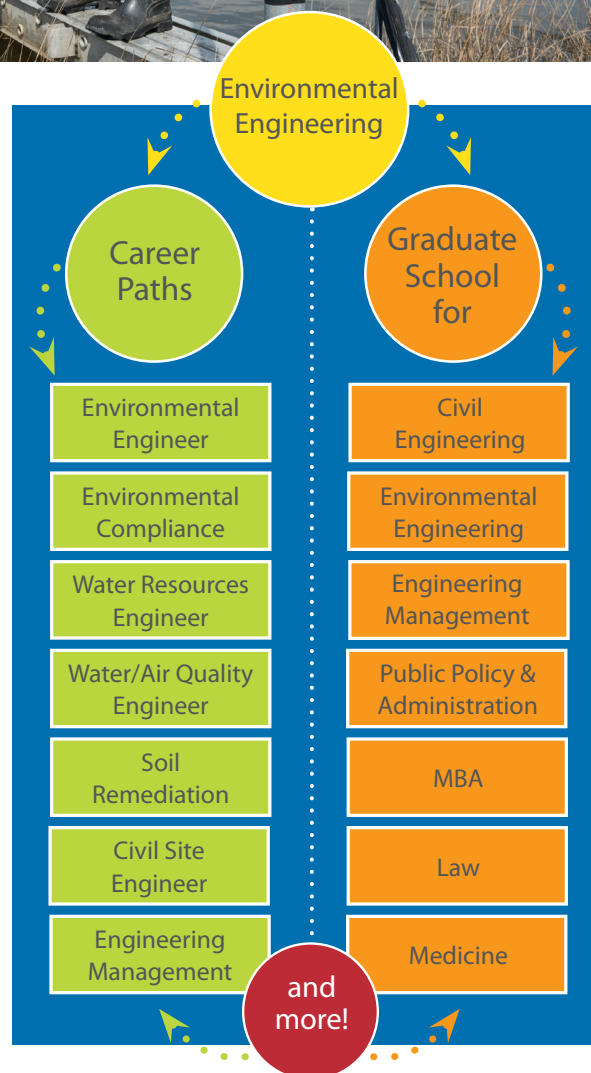


Improve the environment

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.





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Areas of concentration

- Environmental Facilities Design and Construction
- Water Resources and Water Quality
- Environmental Biological and Chemical Processes

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 (BEE) 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.

Contact us:
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Environmental Engineering Curriculum:

To earn a bachelor's degree, students must complete 125 credits and meet specific requirements as outlined in the online catalog. See UD Catalog for additional details.

Water Resources and Water Quality Concentration

FIRST YEAR

FALL

- EGGG 101 - Introduction to Engineering (FYE)
- CHEM 103 - General Chemistry
- MATH 241 - Analytic Geometry & Calculus A
- CISC 106 - General Computer Science for Engineers
- Breadth Requirement Elective 1

SPRING

- CIEG 233 - Environmental Engineering Processes
- CHEM 104 - General Chemistry
- MATH 242 - Analytic Geometry & Calculus B
- ENGL 110 - Seminar in Composition
- Breadth Requirement Elective 2

SECOND YEAR

FALL

- CIEG 211 - Statics
- PHYS 207 - Fundamentals of Physics I
- MATH 243 - Analytic Geometry & Calculus C
- Breadth Requirement Elective 3
- Breadth Requirement Elective 4

SPRING

- CIEG 315 - Probability and Statistics for Engineers
- BISC 207 - Introductory Biology I
- MATH 351 - Engineering Mathematics I
- Computer Elective
- Breadth Requirement Elective 5

THIRD YEAR

FALL

- CIEG 305 - Fluid Mechanics
- CEIG 306 - Fluid Mechanics Lab
- CIEG 438 - Water and Wastewater Engineering
- CIEG 440 - Water Resources Engineering
- CHEG 231 - Chemical Engineering Thermodynamics
- CIEG 337 - Environmental Engineering Lab

SPRING

- CIEG 437 - Water and Wastewater Quality
- ENGL 410 - Technical Writing
- Groundwater or Technical Elective course
- Watershed or Technical Elective course
- Breadth Requirement Elective 6

FOURTH YEAR

FALL

- CIEG 461 - Senior Design Project (DLE)
- CIEG 436 - Processing, Recycl., Mgt. of Solid Waste
- Groundwater or Technical Elective course
- Watershed or Technical Elective course
- Air Pollution or Technical Elective course

SPRING

- CIEG 461 - Senior Design Project (DLE)
- CIEG 442 - Stormwater Management
- Air Pollution or Technical Elective course
- Surface Water Course
- Technical Elective