UNIVERSITY OF DELAWARE
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.

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
Law
Medicine ***and more!***

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UNIVERSITY OF DELAWARE
ENGINEERING

ENVIRONMENTAL ENGINEERING

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 (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.

CONTACT US:
Department of Civil & Environmental Engineering
301 Du Pont Hall
Newark, DE 19716
Phone: 302-831-2442
Email: cee-info@udel.edu
Web: ce.udel.edu

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	Credits
EGGG 101 - Introduction to Engineering (FYE)	2
CHEM 103 - General Chemistry	4
MATH 241 - Analytic Geometry & Calculus A	4
CISC 106 - General Computer Science for Engineers	3
Breadth Requirement Elective 1	3
Total Credits:	16

SPRING	Credits
CIEG 233 - Environmental Engineering Processes	3
CHEM 104 - General Chemistry	4
MATH 242 - Analytic Geometry & Calculus B	4
ENGL 110 - Seminar in Composition	3
Breadth Requirement Elective 2	3
Total Credits:	17

SECOND YEAR

FALL	Credits
CIEG 211 - Statics	3
PHYS 207 - Fundamentals of Physics I	4
MATH 243 - Analytic Geometry & Calculus C	4
CIEG 333 - Thermodynamics for Environmental Engineers	3
Breadth Requirement Elective 3	3
Total Credits:	17

SPRING	Credits
CIEG 315 - Probability and Statistics for Engineers	3
BISC 207 - Introductory Biology I	4
MATH 351 - Engineering Mathematics I	3
Computer Elective	3
Breadth Requirement Elective 4	3
Total Credits:	16

THIRD YEAR

FALL	Credits
CIEG 305 - Fluid Mechanics	3
CEIG 306 - Fluid Mechanics Lab	1
CIEG 440 - Water Resources Engineering	3
Breadth Requirement Elective 5	3
General Elective	3
Technical Elective	3
Total Credits:	16

SPRING	Credits
CIEG 437 - Water and Wastewater Quality	3
CIEG 438 - Water and Wastewater Engineering	3
ENGL 410 - Technical Writing (Breadth Requirement Elective 6)	3
Groundwater or Technical Elective	3
Watershed or Technical Elective	3
Total Credits:	15

FOURTH YEAR

FALL	Credits
CIEG 461 - Senior Design Project (DLE & Capstone)	2
CIEG 436 - Processing, Recycl., Mgt. of Solid Waste	3
CIEG 337 - Environmental Engineering Lab	3
Watershed or Technical Elective	3
Air Pollution or Technical Elective	3
Total Credits:	14

SPRING	Credits
CIEG 431 - Urban Hydrology & Drainage Design	3
CIEG 461 - Senior Design Project (DLE)	2
Air Pollution or Technical Elective course	3
Surface Water Course	3
Groundwater or Technical Elective	3
Total Credits:	14

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