



UNDERGRADUATE PROGRAM

ENVIRONMENTAL ENGINEERING

2019
UNDERGRADUATE
ENROLLMENT:

84

TOTAL CREDIT
HOURS:

127

Achieving sustainability in our complex world requires clean water, clean air, and a healthy environment. Environmental engineers help society achieve these goals by applying principles of biology, chemistry, and the earth sciences. They design drinking water treatment plants, turn wastewater into energy, build devices to improve air quality, and restore historically contaminated sites.

They perform life cycle analysis (LCA) to quantify the benefits of sustainable practices like recycling and using renewable energy. They use risk assessment to protect human health and ecosystems. Environmental engineers accomplish their career goals by doing good for society and the planet.



ENVIRONMENTAL ENGINEERING AT CLEMSON

Clemson University has the first ABET-accredited environmental engineering undergraduate degree program in South Carolina. At the undergraduate level, we are committed to providing the next generation of environmental engineers a comprehensive understanding and skill set to design sustainable systems.

clemson.edu/ees

ENVIRONMENTAL ENGINEERING

PROGRAM DETAILS:

Our environmental engineering curriculum is versatile, allowing students to pursue a core curriculum that emphasizes areas that are traditionally associated with environmental engineering (e.g., water and wastewater treatment, solid and hazardous waste management, air pollution control, sustainability, and risk assessment).

LABS AND FACILITIES FOR HANDS-ON TRAINING

Brackett Hall Laboratories: Environmental engineering majors take laboratory courses that offer exposure to state-of-the-art equipment used to monitor water quality, including pathogenic microbes, chemical oxygen demand, and pilot scale analysis of water filtration.

Undergraduate students participating in Creative Inquiry or other research projects may also use facilities at the Biosystems Research Complex (BRC) on main campus, as well as the L. G. Rich Environmental Laboratory (Rich Lab) and Clemson Engineering Technologies Laboratory (CETL), located 8 miles from the main campus at the Clemson University Advanced Materials Research Park

CLUBS AND ORGANIZATIONS

The Department of Environmental Engineering and Earth Sciences (EEES) hosts both the Environmental Engineering Club and the Student Chapter of the American Water Works Association. Club activities include a career fair, Lake Hartwell clean-ups, waterfall hikes, group trips to the South Carolina Environmental Conference and more. All engineering students are invited to join Clemson's Engineers without Borders, a service organization under Engineers Without Borders USA.

GLOBAL ENGAGEMENT

Sustainability in Spain: This program offers students the opportunity to take six credits in Environmental Sustainability and Geographic Information Systems (GIS) for Sustainable Development in the context of sustainable technologies and practices in northern Spain. The Navarra region is a global leader in sustainability, obtaining around three-quarters of their electricity from renewable resources. Students will learn via classroom instruction and by visiting sites, including energy (e.g., wind and solar) farms and desalination facilities. Students will understand the economic, environmental, and societal impacts of these technologies.

SCHOLARSHIPS AND AWARDS

Thomas M. Keinath Endowment in Environmental Engineering: Presented to junior and senior students majoring in environmental engineering with outstanding achievements and possessing the personal attributes necessary for successful accomplishments in this discipline. The award is given in honor of Dr. Thomas M. Keinath who served as a faculty member, department chair, and the Dean of the College of Engineering and Science during his 37 year career at Clemson University.



Department of
**ENVIRONMENTAL ENGINEERING AND
EARTH SCIENCES**

College of Engineering Computing
and Applied Sciences

CLEMSON



UNDERGRADUATE RESEARCH

Several Creative Inquiry (CI) projects are available in environmental engineering and related areas. Recent CI projects include: environmental effects of co-contaminant exposure, industrial assessment of energy and resource efficiency, and water quality monitoring. In addition, students can choose to work with a faculty member on a multi-semester research project by pursuing departmental honors.

CO-OPS AND INTERNSHIPS

Some of our students choose to intern or co-op with environmental consulting and engineering firms such as Black & Veatch, Brown and Caldwell, and many others. Other students find opportunities with municipal utilities such as Anderson Regional Joint Water System, Renewable Water Resources (ReWa), the Charleston Water System, and Santee Cooper.

MINORS

- Environmental Science and Policy
- Geology
- Nuclear Engineering and Radiological Sciences
- Sustainability

EMPLOYERS

- Brown and Caldwell
- CDM Smith
- Eastman Chemical
- ExxonMobile
- Harper General Contractors

More info at: clemson.edu/cecas/psu