Engineering and Computer Science Majors

Environmental Engineering

About
Environmental engineers apply science and engineering principles to protect local, regional and global environments from detrimental effects of natural and human activities. Working at the interface between the natural and built environment, environmental engineers are responsible for air pollution control, water and wastewater treatment, solid and hazardous waste treatment and management, environmental health, and remediation. Environmental engineers design projects to improve environmental quality; and obtain, update, and maintain plans, permits, and standard operating procedures to ensure compliance with environmental regulations. Environmental engineers are directly responsible for improving the quality of life and safety of society, and have a professional and ethical responsibility to the public for doing so.

Coursework Includes
- Sustainable Resource Management
- Thermodynamics
- Engineering Economic Analysis
- Air Pollution and Hazardous Waste Control
- Mechanics of Materials
- Geotechnical Engineering
See program requirements in the UCF catalog at http://catalog.ucf.edu

Where Environmental Engineering Graduates Work
- Consulting and design firms (e.g., Arcadis, Atkins, SCS Engineers, Tetra Tech)
- Construction firms (Wharton-Smith, Turner, Core Engineering & Construction)
- State regulatory or environmental policy agencies (departments of environment or health)
- Water management districts (St. Johns Water Management District, South Florida WMD, etc)
- Waste management (Waste Management Inc., Waste Services Inc.)
- State transportation agencies (e.g., Florida Department of Transportation) district or state offices
- Municipal governments and utilities (e.g., City of Orlando; Orlando Utilities Commission, etc.)
- Higher education (graduate school or later faculty)

Typical Starting Salary / Possible Job Titles
$50,200. Design, Project or Process Engineer; Project Manager; Modeler; Environmental Engineer; Sanitation Engineer; Resource Manager; Water/Wastewater Engineer; Utility Engineer; Air or Water Quality Engineer.

Related Student Organizations at UCF
American Society of Civil Engineers
American Water Resources Association
American Water Works Association
Engineers Without Borders
Society of Environmental Engineers
Water Environment Federation
Air & Waste Management Association

Related Minors
Bioengineering, Chemistry,
Engineering Leadership;
International Engineering

Contact Department of Civil,
Environmental & Construction Engineering
407-823-2841; http://cece.ucf.edu
University of Central Florida
UCF's 13 colleges provide education and opportunities to 64,000 students from all 50 states and 152 countries. Located in Orlando, Florida, UCF is one of the nation's largest universities with 212 degree programs from which to choose. Students find community and camaraderie in more than 600 registered student organizations. See the UCF Viewbook at www.ucf.edu/admissions to learn more.

College of Engineering and Computer Science
With nearly 10,000 students, the college is among the nation’s top producers of engineers and computer scientists. Students receive rigorous instruction and graduate with solid technical skills.

During their academic career, students benefit from unique and innovative leadership and diversity-based support programs, such as the UCF Engineering Leadership & Innovation Institute (www.eli2.cecs.ucf.edu), and renowned STEM retention and mentoring programs described at www.stem.ucf.edu/stem-programs-at-ucf.

These programs are among the many reasons why the University of Central Florida was recognized along with Harvard, MIT, Stanford and Duke as one of the nation’s most innovative universities in U.S. News & World Report Best Colleges 2016 guide.

UCF Rankings
- Nation's #1 workforce supplier to the aerospace and defense industry (Aviation Week, 2015, 2016)
- Ranked #3 in nation, #28 in world, 2016 Association of Computing Machinery's International Collegiate Programming Competition.
- Ranked #1 among all state universities in Florida for performance measures that include graduation rates and graduates' employment and wages (Florida Board of Governors 2016)
- No. 1 choice of high school seniors in Florida and in the 12 states of the U.S. Southeast region (2016 Cappex College Considerations Report)