Engineering and Computer Science Majors

Construction Engineering

About
Construction engineering is the application of math and science to engineering design and management of construction projects. Construction engineers study construction methods and processes, construction project planning and control, and resource management. They have a strong foundation in civil and environmental engineering design, planning and operations, as well as broader understanding of economics, management, policy, equipment and leadership.

Coursework Includes
- Engineering Fluid Mechanics
- Construction Estimating and Scheduling
- Principles of Managerial Accounting
- Environmental Engineering
- Geotechnical Engineering
- Construction Methods

See program requirements in the UCF catalog at http://catalog.ucf.edu

Where Construction Engineering Graduates Work
- Construction firms and contractors (e.g., Wharton-Smith, Turner, Skanska, Hubbard, Bechtel)
- Consulting and design firms (e.g., Atkins, AECOM, Parsons Brinckerhoff)
- Many large companies provide design, consulting, construction, management, and/or contracting services under the same umbrella
- Government agencies (e.g., Occupational Safety and Health Administration)
- State transportation agencies (e.g., Florida Department of Transportation) district or state offices
- Municipal governments (e.g., City of Orlando)
- Higher education (graduate school students or later faculty)

Typical Starting Salary / Possible Job Titles
$50,000 Design Engineer; Project Engineer; Project Manager; Site Inspector; Site Engineer; Threshold Inspector; Estimator; Scheduler

Related Student Organizations at UCF
American Society of Civil Engineers
American Concrete Institute
American Society of Highway Engineers
Associated Builders and Contractors

Related Minors
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)