



## 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 undergraduate catalog at [catalog.ucf.edu](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  
[cece.ucf.edu](http://cece.ucf.edu)

## University of Central Florida

Located in Orlando, Florida, UCF is one of the nation's largest universities with more than 66,000 students from all 50 states and 152 countries. UCF's 13 colleges offer 212 degree programs. Students find community and camaraderie in more than 600 registered student organizations. To learn more, visit [www.ucf.edu/admissions](http://www.ucf.edu/admissions).

## College of Engineering and Computer Science

With 10,000+ students, the college is among the nation's top producers of engineers and computer scientists. Students receive rigorous instruction, enhanced with real-world hands-on experiences, to graduate with solid technical skills in 11 majors offered: aerospace engineering; civil engineering; computer engineering; computer science; construction engineering; electrical engineering; environmental engineering; industrial engineering; information technology; mechanical engineering; and optics and photonics.

During their academic career, students benefit from unique and innovative leadership and diversity-based support programs, such as the UCF Engineering Leadership & Innovation Institute (eli<sup>2</sup>) ([eli2.cecs.ucf.edu](http://eli2.cecs.ucf.edu)), and renowned STEM retention programs described in detail at [stem.ucf.edu/stem-programs-at-ucf](http://stem.ucf.edu/stem-programs-at-ucf).

## UCF Rankings

- Nation's #1 workforce supplier to the aerospace and defense industry (*Aviation Week*, 2015, 2016)
- Ranks 11th among U.S. public universities for number of National Merit Scholars (289).
- *Kiplinger*, *Forbes* and *The Princeton Review* rank a UCF education among the nation's best values.
- Ranks #1 in nation, #13 in world among 13,000 regional teams, 2017 Association of Computing Machinery's International Collegiate Programming Competition.
- Home to three-time national champions: UCF Collegiate Cyber Defense Competition Team – 2014, 2015, 2016.
- U.S. Southeast Programming Team Champions – 2012, 2013, 2014, 2015, 2016.
- Ranks #5 out of 225 U.S. universities for number of patents granted, and #22 for success in research that leads to new technologies, products and companies (*2017 Milken Institute report*).
- Top choice of high school seniors in Florida and in the 12 states of the U.S. Southeast region (*2016 Cappex College Considerations Report*)



UNIVERSITY OF CENTRAL FLORIDA  
*has been designated as a  
National Center of Academic Excellence  
in Cyber Defense Education*



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