Engineering and Computer Science Majors

Electrical Engineering

About

Electrical engineers work on products that are powered by or produce electricity. Focus areas include communications, digital signal processing, electromagnetics, power and control systems. Electrical engineers design and create devices and technologies in areas such as signal processing, renewable power, biomedical sensing, computer architecture, microwave engineering and antenna design, that impact all facets of modern life.

UCF's electrical and computer engineering programs share a common set of engineering core courses, such as mathematics, physics, chemistry, statistics, linear circuits, electronics. UCF also offers an accelerated BS to MS.

Coursework Includes

- Electrical Networks
- Networks and Systems
- Semiconductor Devices
- Linear Control Systems
- Electromagnetic Fields
- Digital Communication Fundamentals

See program requirements in the UCF undergraduate catalog at **catalog.ucf.edu**

Where Electrical Engineering Graduates Work

EE graduates work in most engineering industries, including aerospace; automotive; energy; defense; electronics; oil and gas; telecommunications. They work in large computer companies such as Texas Instruments, and smaller companies as well. Many electrical engineering graduates pursue an entrepreneurial career path by patenting their innovations and launching start-up companies.

Typical Starting Salary / Possible Job Titles

$62,500. Electrical Engineer; Project Engineer; Field Engineer.

Related Student Organizations at UCF

Institute of Electrical and Electronics Engineers
Eta Kappa Nu (ECE Honor Society)
Women in EECS
Collegiate Cyber Defense Club (Hack@UCF)

Related Minors

Computer Science; Mathematics;
Secure Computing and Networks;
Engineering Leadership;
Cyber Operations Certificate.

Contact

Department of Electrical and Computer Engineering
407-823-3327
ece.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**.

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^2) (**eli2.cecs.ucf.edu**), and renowned STEM retention programs described in detail at **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

College of Engineering and Computer Science
UNIVERSITY OF CENTRAL FLORIDA