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 catalog at http://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
http://ece.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)