Get Specialized
Electrical engineering students may specialize in electromagnetics, physical electronics, systems and information processing, or wireless systems.

Top Tech
Integrated lab experiences give students training and time with the latest fiber optics, microelectronics, analytical instrumentation and design software.

Known for Engineering
Florida Tech is listed among the Fiske Guide’s “Engineering/Top Technical Institutes” and Parade Magazine’s College A-List in Engineering.

Electrical engineering is the study and application of electricity, electronics and electromagnetism toward the design of new and better electronics and electronic systems. In addition to building an extensive knowledge of electrical engineering concepts and hardware, students build skills in software simulation and analysis, preparing them for careers in almost any industry.

Why Electrical Engineering at Florida Tech?
In addition to the university’s close proximity to hundreds of high-tech companies—a true advantage when it comes to finding internships and other opportunities—Florida Tech is a great place to study electrical engineering because it offers small classes taught by highly accomplished faculty who see student success as their top priority. Another benefit is the program’s culture of innovation and hands-on learning. Students are not only taught the material critical to electrical engineering but are mentored toward being able to demonstrate—through practical application—mastery of that material. As a result, electrical engineering students graduate with the confidence and competence to enter a variety of competitive career fields.

Your First-Year Experience
Our program is different than most in that we cover digital electronics, computer design and microcontroller programming all in the first year. As an electrical engineering major at Florida Tech, you are also immediately introduced to and engaged in design methodologies. In first-year courses, students are introduced to the field of electrical engineering and get the opportunity to program and interface an embedded microcontroller. Through these hands-on experiences, students are better prepared to begin specializing as sophomores.

QUICK FACTS
• The Bachelor of Science degree in Electrical Engineering is accredited by the Engineering Accreditation Commission of ABET, www.abet.org.
• The department of electrical and computer engineering is the second largest in the College of Engineering.
• High-achieving students may become members of Tau Beta Pi, a national engineering honor society.
• Students have access to more than 10,000 square feet of high-tech research lab space.
Electrical Engineering

Examples of high-tech projects that electrical engineers work on include global positioning systems (GPS), giant generators that can power entire cities and aircraft electrical systems.

What to Expect

Electrical engineering students may expect small classes and the opportunity to work with faculty in the areas of electronic systems and Internet programming. Many work with fiber optics, microelectronics and instrumentation. The program's reputation and proximity to a variety of high-tech companies means you can also expect to find a great internship and build valuable on-the-job experience.

Facilities

Part of what makes Florida Tech a great place to study electrical engineering is the F. W. Olin Engineering Complex, which features more than 10,000 square feet of laboratory space. This state-of-the-art facility reflects Florida Tech's commitment to academic excellence and cutting-edge programs and provides an outstanding learning environment for undergraduates.

Faculty Research Areas

The electrical engineering faculty is diverse, with research interests that span the field. These include:
• wireless communications and cellular systems
• spacecraft systems
• neural networks
• speech recognition and speaker identification
• digital signal processing
• photonics

Careers

Students who graduate with a degree in electrical engineering are likely to find careers focused on the design, development and testing of computers and computer systems. Graduates of Florida Tech's electrical engineering program have gone on to work for:
• IBM
• Samsung
• Northrop Grumman
• Harris
• NASA Kennedy Space Center
• Yahoo

Graduate Study

Graduates of the electrical engineering program at Florida Tech are prepared to pursue advanced degrees in electrical engineering and related fields and have gone on to study at graduate schools such as:
• California Institute of Technology
• Stanford University
• Georgia Institute of Technology
• UC Berkeley
• Technical University (Eindhoven, The Netherlands)

Outstanding Faculty

Our faculty includes one IEEE Fellow, one IEEE Life Fellow, a recipient of the Presidential Early Career Award for Scientists and Engineers, and a member of the editorial board of the Journal of Signal and Imaging Systems Engineering.

Student Organizations

Florida Tech has student chapters of the Institute of Electrical and Electronic Engineers, the Society of Women Engineers and Eta Kappa Nu (HKN), the electrical and computer engineering honor society.

Senior Design

As seniors, all engineering students complete a capstone project that challenges them to design, develop, prototype and present a complex engineering system.

AMAL THEA

Funded by a grant from the National Science Foundation, this 10-week summer research experience offered to undergraduate students focuses on machine learning.

AMAL THEA

Funded by a grant from the National Science Foundation, this 10-week summer research experience offered to undergraduate students focuses on machine learning.

Florida Institute of Technology

High Tech with a Human Touch™

Office of Undergraduate Admission
150 W. University Blvd.
Melbourne, FL 32901-6975
Ph: 321-674-8030
Toll Free: 800-888-4348
Fax: 321-674-8004
admission@fit.edu
www.fit.edu
Follow us

www.fit.edu/programs/ugrad