

Enrollment Options

Qualified students can begin classes by registering as a non-degree student for the following term. Consult the departmental graduate advisor about procedures for non-degree status and for transferring non-degree credits earned to a regular degree program.

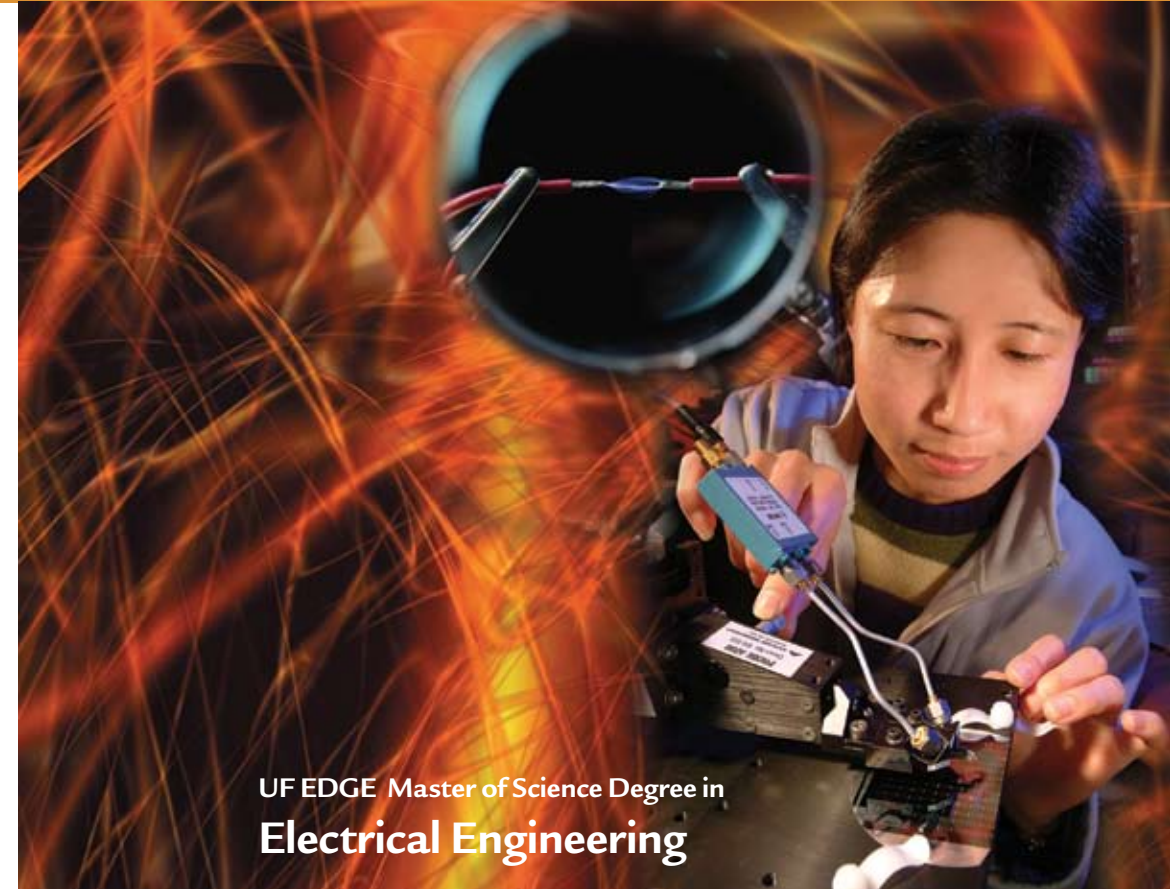
For More Information

The UF EDGE Web site offers extensive information about our programs, as well as the application and registration process. Visit www.ufedge.eng.ufl.edu to:

- Sign up for a free online preview to sample a course
- Use the “Contact us” link to get further information regarding course content and ask specific questions

For current information about tuition and financial aid, visit the UF Graduate School Web site at www.gradschool.rgp.ufl.edu.

UF EDGE
E-117 CSE
PO Box 116100
Gainesville, FL 32611-6100
Phone: 352.392.9670
Fax: 352.846.2255
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UF EDGE Master of Science Degree in Electrical Engineering

UF UNIVERSITY of
FLORIDA

UF EDGE
E-117 CSE
PO Box 116100
Gainesville, FL 32611-6100

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Give Your Career that UF EDGE

Professional engineers can earn a master's degree at a time and place convenient to them through programs from UF EDGE (University of Florida Electronic Delivery of Graduate Engineering). UF EDGE helps technical professionals update core knowledge in their engineering disciplines, learn about emerging technologies and acquire new skills in related engineering areas.

University of Florida
UF EDGE
Electronic Delivery of Graduate Engineering

www.ufedge.eng.ufl.edu



Curriculum for the Master of Science Degree in Electrical Engineering

Master's degree programs offered through UF EDGE are non-thesis. A non-thesis master's degree requires the completion of ten 3-semester credit hour courses as outlined in the degree curriculum. A minimum cumulative GPA of 3.0 is required for graduation.

Florida's Best Engineering College

The UF College of Engineering is ranked as the #1 engineering college in Florida and as one of the top 25 in the nation by *U.S. News & World Report* magazine. Our faculty is recognized internationally for doing cutting-edge research. They bring their expertise and enthusiasm into the classroom to provide students with the most up-to-date knowledge in the field.

Learn Anywhere, Anytime

UF EDGE brings this exciting learning experience to a worldwide audience of place-bound engineers through a variety of distance learning technologies accessible at the workplace, home and other sites.

UF EDGE programs are delivered either via streaming video or DVD directly to the student. These are the same courses taught by University of Florida College of Engineering faculty on campus. Courses are supplemented by additional course material and interaction.

The degree can be completed in as little as 24 months.

Master's Degrees Do Pay Off

A master's degree in engineering can be worth \$2.5 million over the course of your career, according to a recent U.S. Commerce Department Census Bureau study that compares educational level to work-life earnings.

The investment of time and tuition dollars toward a master's degree can bring a terrific return in total income. Starting salaries for engineers with a master's degree can be \$8,000- \$10,000 higher than for those with only a bachelor's degree. Over a lifetime, the income advantage of a master's degree averages more than \$400,000.

Admission

Admission is coordinated by the Electrical & Computer Engineering department.

Applicants must have:

- A bachelor of science degree in electrical engineering with a cumulative undergraduate GPA of at least 3.0 on a 4.0 scale
- Satisfactory scores on the general portion of the Graduate Record Examination (GRE) with a minimum score of 1200. A GRE Analytical Writing Score of 3.5 is also required.

For international students whose first language is not English, a minimum score of 550 on the Test of English as a Foreign Language (TOEFL) is required to be excused from English language course requirements.

UF EDGE Master of Science Degree in Electrical Engineering

Fall

EEL 5320 Bipolar Analog IC Design (3)

Amplified states, active loads, output stages, op-amps, feedback, frequency response, compensation.

EEL 5322 VLSI Circuits and Technology (3)

Introduction to VLSI circuit technology and manufacturing. Fabrication, device models, layout, parasitic, and simple gate circuits.

EEL 5544 Noise in Linear Systems (3)

Passage of electrical noise and signals through linear systems. Statistical representation of random signals, electrical noise, and spectra.

EEL 6591 Wireless Networks (3)

Design and analysis of wireless networks including channel characteristics, physical layer, cellular concepts, multiple access control protocols, FEC and ARQ protocols, resource allocations, and wireless standards.

Spring

EEL 6321 MOS Analog IC Design (3)

Design of analog circuits in CMOS IC technology, MOS switches, MOS op amp circuits, circuit simulation using SPICE

EEL 6509 Wireless Communication (3)

Introduction. Satellite and cellular systems, propagation, modulation techniques, multiple access techniques, channel coding, speech and video coding, and wireless computer networks.

EEL 6535 Digital Communications (3)

Digital modulation techniques, analysis of digital communication systems in presence of noise; optimum principles, synchronization; equalization.

EEL 6825 Pattern Recognition and Intelligent Systems (3)

Decision functions; optimum decision criteria; training algorithms; unsupervised learning; feature extraction, data reduction; potential functions; syntactic pattern description; recognition grammars; machine intelligence

Summer

EEL 5701 Foundations of Digital Signal Processing (3)

Analysis and design of digital filters for discrete signal processing; spectral analysis; fast Fourier transform.

EEL 5718 Computer Communications (3)

Design of data communication networks; modems, terminals. Error control, multiplexing, message switching, and data concentration