

Enrollment Options

Qualified students can begin classes by registering as a non-degree student for the first semester. Consult the department graduate adviser about procedures for non-degree status and for transferring non-degree credits earned to a regular degree program.

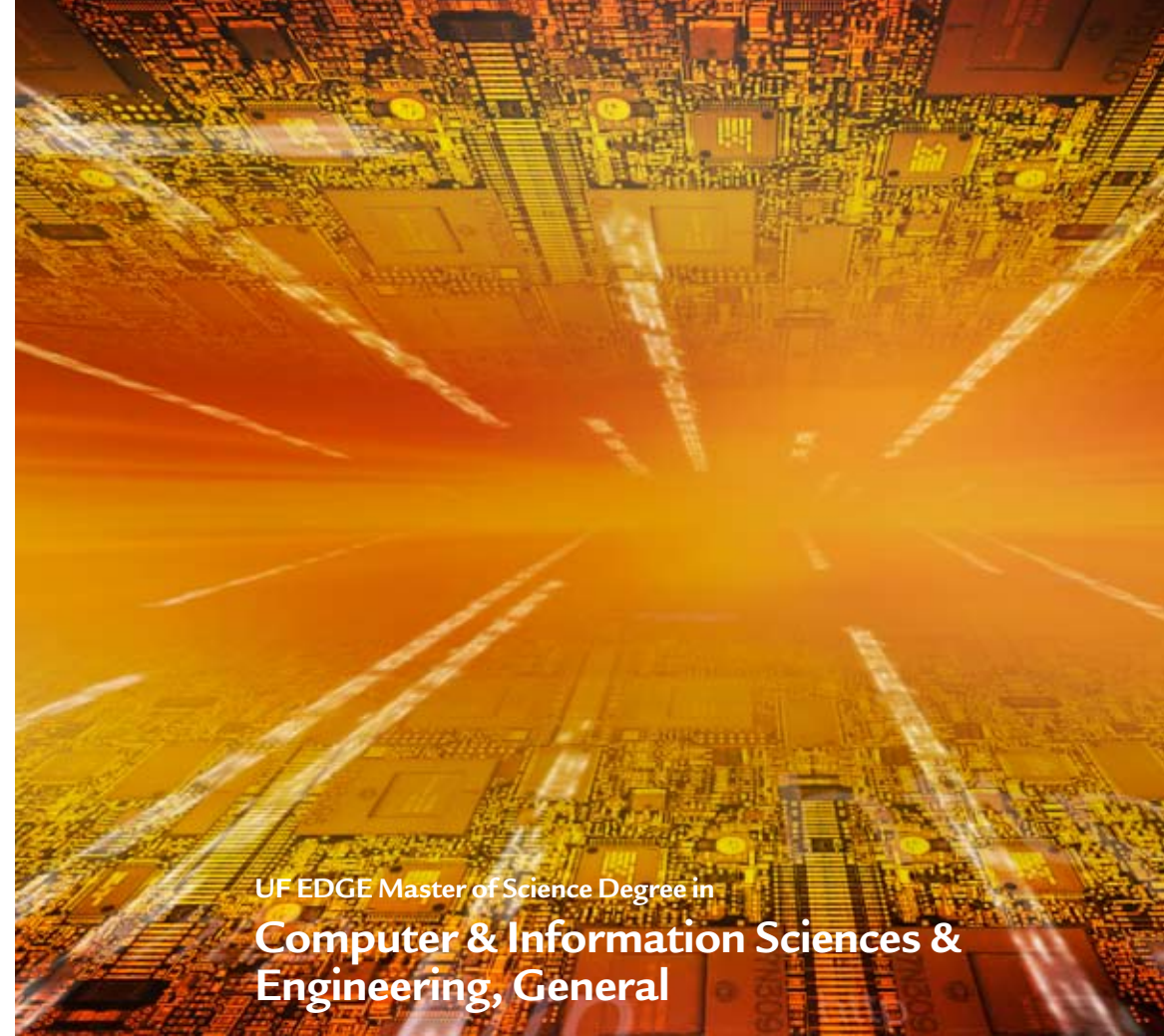
For More Information

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 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
e-mail: UFEDGE@eng.ufl.edu



UF EDGE Master of Science Degree in
**Computer & Information Sciences &
Engineering, General**

UF UNIVERSITY of
FLORIDA

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

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Florida's Best Engineering College

The UF College of Engineering is ranked as the No. 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 cutting-edge research. They bring expertise and enthusiasm into the classroom and 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 by streaming video 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.

Admission

Admission is coordinated by the Computer & Information Science & Engineering department.

Applicants must have:

- A bachelor of science degree in computer science or computer engineering with a cumulative undergraduate upper-division GPA of at least 3.0 on a 4.0 scale
- Satisfactory scores on the general portion of the Graduate Record Examination (GRE) totaling 1100 (math and verbal, with math>600, verbal>400).

For international students whose first language is not English, a minimum score of 600 (250 on the computer-based test) on the Test of English as a Foreign Language (TOEFL) is required to be excused from English language course requirements.

Curriculum for the Master of Science Degree in Computer & Information Sciences & Engineering

Master's degree programs offered through UF EDGE are non-thesis. A non-thesis master's degree requires the completion of 10 three-semester credit hour courses as outlined in the degree curriculum. A minimum cumulative GPA of 3.0 is required for graduation.

Fall

COP 5615 Operating System Principles (3)

Prereq: COP 4600.

The concepts and techniques of efficient management of computer system resources.

COP 5536 Advanced Data Structures (3)

Prereq: COP 3530

Development of efficient data structures used to obtain more efficient solutions to classical problems, such as those based on graph theoretical models, as well as problems that arise in application areas of contemporary interest.

COP 5555 Programming Language Principles (3)

Prereq: COP 3530.

History of programming languages, formal models for specifying languages, design goals, run-time structures, and implementation techniques, along with survey of principal programming language paradigms.

CEN 6070 Software Testing and Verification (3)

Prereq: CEN 5035.

Concepts, principles, and methods for software testing and verification. Topics include human and machine-based testing strategies, formal proofs of correctness, and software reliability.

CEN 5501C Computer Networks (3)

Prereq: CEN 4500C and COP 4600.

The course covers the design, implementation and internals of modern computer networks. While all layers will be introduced, the layers below the Application Layer will be the main focus. The main effort will be spent on the design issues for Transport Layer, Network Layer, Data-Link and MAC Layer, and other related topics.

CEN 5540 Computer and Network Security (3)

Prereq: COP 3530, COT 5405; coreq: COP 4600.

Issues, analysis, and solutions. Viruses, worms, logic bombs, network attacks, covert channels, steganography, cryptology, authentication, digital signatures, electronic commerce.

Spring

CDA 5155 Computer Architecture Principles (3)

Prereq: CDA 3101, COP 3530, and COP 4600.

Fundamental design issues of processor and computer architecture, a variety of design approaches for CPU, memory, and system structure.

CEN 5035 Software Engineering (3)

Prereq: CIS 3020 and COT 3100.

Topics in projects organization, specification techniques, reliability measurement, documentation.

COT 5405 Analysis of Algorithms (3)

Prereq: COP 3530.

Introduction and illustration of basic techniques for designing efficient algorithms and analyzing algorithm complexity.

COP 5725 Database Management Systems (3)

Prereq: COP 3530, 4600, or equivalent.

An introduction to systems and procedures for managing large computerized databases.