



MASTER'S PROGRAM IN COMPUTER ENGINEERING

Practical Knowledge to Advance Your Career

Mercer's Master of Science in Engineering (MSE) in Computer Engineering is designed to teach you the sophisticated computer engineering skills you need to *be a leader in your engineering team*. The *cutting-edge curriculum* builds on your engineering and computer programming background and helps you to become an essential member of your work group.

The program is designed with working engineers in mind and offers evening classes taught once a week to accommodate the schedules of practicing professionals. Students benefit from the unique program structure, consisting of both face-to-face class meetings and online courses. Not only will this degree add to your credentials as an engineer, but more importantly, it will *add to your skill level in the workforce*, with graduates reporting they see a noticeable difference in their contribution to their jobs after as few as two courses.

AN ADVANCED DEGREE FOR THE PRACTICING PROFESSIONAL

- Benefit from a dual-structured program with face-to-face class meetings in electrical topics and online class meetings in software topics
- Attend face-to-face courses once a week in the evenings to accommodate professional schedules
- Interact through online-learning in software topics to provide additional flexibility for engineers facing time and location constraints
 - Supplement online-learning through optional attendance at face-to-face software class meetings
 - Learn from industry-experienced faculty
 - Benefit from small class sizes and a high level of interaction between students and faculty
 - Collaborate with a diverse group of professionals, each bringing unique backgrounds and work experience



CUSTOMIZE YOUR DEGREE

Choose from two degree pathways.

1. Delve into computer engineering topics with Mercer's all coursework option (30 credits coursework)
2. Contribute to the computer engineering field through graduate research via a faculty-directed thesis (24 credits coursework and 6 credits thesis)

Benefit from a balance of hardware and software courses.

- Take three courses in software engineering (9 credits)
- Take three courses in electrical engineering (9 credits)
- Choose your remaining courses based upon your personal career objectives

Courses recently offered include:

- Digital Control Systems
- Digital Signal Processing
- Computer Architecture
- Digital Communication Coding Theory
- Java Design I and II
- Object Oriented Project Methods
- Refactoring
- Design Patterns

LEARN THE SKILLS TO DESIGN EFFECTIVE EMBEDDED SYSTEMS

- Software engineering
- Digital hardware design
- Electronic interfacing
- Computer networks for distributed systems
- Computer architecture

GAIN HANDS-ON PROJECT EXPERIENCE IN FOUR ECE LABORATORIES

- Embedded Systems/ Digital Signal Processing Lab
- Communications Lab
- EMI-Passive Detection Lab
- FPGA-Analog and Digital Fabrication Lab

ADD IMMEDIATE VALUE TO YOUR EMPLOYER

- Gain expertise in advanced computer engineering topics
- Apply advanced mathematics and computational tools to solve complex engineering problems
- Tailor degree to company needs and your own professional goals
- Increase personal contributions to your engineering design team
- Take on greater leadership roles within your team and/or company

ADMISSIONS REQUIREMENTS

Applicants for full admission to the Master of Science in Engineering in Computer Engineering program at the School of Engineering must:

- Submit a completed graduate application along with application fee
- Hold a bachelor's degree from an engineering school accredited by the Engineering Accreditation Commission of ABET, Inc.
- Have earned an undergraduate GPA of 3.0 overall
- Submit a Graduate Record Examination (GRE) score on the general section of the test



ALUMNI PERSPECTIVE

"Mercer University offers a top-notch master's program in computer engineering, and I would strongly encourage anyone looking at engineering graduate programs to consider Mercer. The professors are leaders in their field and are always available for their students. The program offers flexibility for those who work and want to continue their education. The program adds to your skill sets and helps you to be a leader in your job. A Mercer degree truly puts you ahead of the pack."

JAMES PROLIZO Envisionware, Inc.

The Future of Computer Engineering... Did You Know?

- The Bureau of Labor Statistics recently ranked the top 30 fastest growing jobs in terms of salary through 2014. Computer Systems Software Engineer ranked #1 with a median annual salary of \$81,140, followed by Computer Applications Software Engineer which was ranked #2 with a median annual salary of \$76,310.
- The applications of computer engineering, and in particular embedded systems, continue to increase rapidly. Today, embedded systems far outnumber personal computers, making those who can design embedded systems a coveted commodity in the workforce. Growing applications of embedded systems include use in:
 - Transmission systems of wireless and wired digital networks
 - Fuel-injection systems of automobiles
 - Flight control systems of airplanes
 - Motion control and sensor systems of robots
 - Control and protection systems of nuclear power plants
 - Components in low-cost toys and kitchen appliances

MERCER
UNIVERSITY

SCHOOL OF ENGINEERING

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