

# Electrical and Computer Engineering

MASTER OF SCIENCE IN

Electrical and computer engineers combine their knowledge of science, mathematics, and engineering with problem-solving skills to design, construct, and maintain the vital products, services, and information systems that fuel our technology-driven world.

Many employers today believe a graduate degree is essential in order to succeed in this competitive and rapidly changing marketplace. Furthering your education can help you gain an expert level of technical proficiency, improve your marketability, and advance your career.



In addition to preparing you for leadership roles in the primary fields of electrical, electronics, and computer engineering, a Master of Science in Electrical and Computer Engineering from Lawrence Technological University can equip you to enter a variety of allied disciplines, including biomedical engineering, computer science, and aerospace engineering.

## Why Electrical and Computer Engineering at Lawrence Tech?

The MS in Electrical and Computer Engineering program features a comprehensive curriculum developed and thoroughly assessed with assistance from an active Industrial Advisory Board, comprised of distinguished engineering professionals with knowledge of business practices and experience working in the field.

Built around the University's motto of theory and practice, the

program features a strong laboratory component, allowing you to gain practical, hands-on experience in state-of-the-art facilities. Courses emphasize digital control systems and communications, instrumentation, and computer-aided design.

Developed with working professionals in mind, the MS in Electrical and Computer Engineering is an evening program that features two options, depending on your goals. The course work-only option requires 32 credit hours – four core classes and four electives, while the 30-credit-hour thesis option requires four core classes, two electives, and a master's thesis. Regardless of the option you choose, you will have the advantage of learning from faculty with current industry experience as well as the opportunity to interface with established mentors dedicated to your success.

### CURRICULUM

*Your program requires 30 to 32 credit hours, depending on the option chosen, and consists of:*

#### Course Work-Only Option

Core Courses	16
Engineering Analysis	
Network Synthesis	
Digital Control Systems	
Digital Signal Processing	

Technical Electives 16

**Total Credit Hours 32**

#### Thesis Option

Core Courses	16
Engineering Analysis	
Network Synthesis	
Digital Control Systems	
Digital Signal Processing	

Technical Electives 8

Master's Thesis 6

**Total Credit Hours 30**

“The emphasis on actually applying concepts is what makes Lawrence Tech’s engineering programs different from most – that and the professors. My professors all exude a certain vigor, as if my success is their number one priority – not only in the classroom, but also in my career.”

Christopher Orr, electrical and computer engineering student



### Admission

Admission to the Master of Science in Electrical and Computer Engineering program at Lawrence Tech is competitive. Applicants must:

- Hold a Bachelor of Science degree in electrical or computer engineering from an accredited college or university.
- Have a minimum 3.0 GPA.
- Demonstrate a high potential for success.

### Getting Started

For more information, contact Lawrence Tech’s Office of Admissions at 800.CALL.LTU or [admissions@ltu.edu](mailto:admissions@ltu.edu). For specific questions about the Master of Science in Electrical and Computer Engineering, contact Lawrence Tech’s College of Engineering at 248.204.2500 or [engrdean@ltu.edu](mailto:engrdean@ltu.edu).

### GET MORE. DO MORE.

Lawrence Technological University produces leaders with an entrepreneurial spirit and a global view. That’s why Lawrence Tech graduates are known for top job placement and higher starting salaries. Your benefits:

- Intensive leadership-driven programs that embrace theory and practice
- Faculty with current industry experience, not just book smarts
- Convenient schedules that include day, evening, weekend, and online classes
- Well-connected career placement services
- A hi-tech, wireless 102-acre campus that’s commuter friendly, with recreation, housing, and meal service options

Explore over 80 undergraduate, master’s, and doctoral programs in Colleges of Architecture and Design, Arts and Sciences, Engineering, and Management.