Electrical engineering is the practical application of electricity to solve problems in a wide range of fields, from consumer electronics and medical equipment to automobiles and power generation. Lawrence Technological University offers a program tailored to individual interests and future goals.

The Bachelor of Science in Electrical Engineering at Lawrence Tech provides four areas of concentration: biomedical instrumentation, electrical energy systems, electronics engineering, and embedded systems. Each concentration includes a comprehensive core curriculum, three concentration-specific courses, two approved technical design electives, and three lab courses and/or technical elective courses associated with the selected concentration.

**Biomedical Instrumentation**
The biomedical instrumentation concentration is designed for students interested in healthcare technology and the development of innovative medical products.

**Electrical Energy Systems**
The electrical energy systems concentration aims to give students a background in automation, alternative energy, intelligent motion, and power distribution.

**Electronics Engineering**
The electronics engineering concentration allows students to focus on electronic circuit design.

**Embedded Systems**
The embedded systems concentration is intended for students who want their degree to emphasize computer and digital system design.

**Why Electrical Engineering at Lawrence Tech?**
Lawrence Tech’s emphasis on combining theory and practice means you will have access to co-op programs and industry-sponsored projects that can provide valuable contacts with leading companies and help you to obtain on-the-job experience. Participation in the senior-year capstone course also allows you to gain real-world, hands-on experience. Recently, seniors have designed an award-winning hybrid electric car, a thermal monitoring system for the Detroit Zoo’s Reptile House, a photosensitive robot, and a breath analyzer/vehicle disabler interface.

The electrical engineering program is accredited by the...
Accreditation Board for Engineering and Technology. It includes a core of electrical engineering courses and a wide range of technical electives. The senior capstone project spans two semesters and includes the design, construction, and testing of an electrical engineering project.

At Lawrence Tech, you benefit from individual attention from faculty with current industry experience, as well as engaging classes in a high-tech learning environment. High-end laptop computers, provided to all undergrads, allow you access to valuable, industry-standard software. You are also exposed to the University’s Leadership Program, integrated into all undergraduate curricula, preparing you to not only compete within your profession, but also to lead it.

**Getting Started**

For more information, including information for transfer and international students, visit [ltu.edu/engineering/electricalandcomputer/undergrad_ee.asp](http://ltu.edu/engineering/electricalandcomputer/undergrad_ee.asp) or contact Lawrence Tech’s Office of Admissions at 800.CALL.LTU or admissions@ltu.edu.

**Graduates with a degree in Electrical Engineering have many career options:**

- Automotive electronics
- Aviation electronics
- Bioelectrical devices
- Communications systems
- Computer electronics
- Consumer products
- Electrical equipment
- Entertainment industry
- Industrial robots
- Lighting and wiring
- (vehicles, buildings, and aircraft)
- Power plants

**GET MORE. DO MORE.**

Lawrence Technological University produces leaders with an entrepreneurial spirit and a global view. That’s why most Lawrence Tech students are employed within a month of graduating and earn higher salaries. The return on their bachelor’s degree tuition investment ranks in the highest 30 percent of all U.S. universities. Your benefits:

- Leadership Program that helps you develop the marketable skills that employers seek
- Leadership Portfolio that enhances your diploma – and your resume
- 12:1 student-faculty ratio
- Faculty with current industry experience
- High-end personal computer customized with all needed software – a benefit, valued up to $15,000, unique in Michigan and nationally
- Schedules that work for you, with convenient day, evening, weekend, or online classes
- High-tech, wireless 102-acre campus that’s commuter friendly, with recreation, housing, and meal service options
- Financial-aid, co-op, and internship opportunities
- Proactive career placement services

Explore over 100 undergraduate, master’s, and doctoral programs in Colleges of Architecture and Design, Arts and Sciences, Engineering, and Management.