

BACHELOR OF SCIENCE IN

COMPUTER ENGINEERING

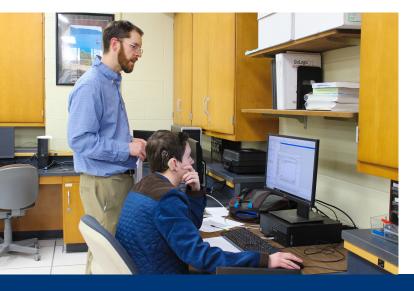
LSSU.edu/GoCE

COMPUTER ENGINEERING PROGRAM

The Computer Engineering program blends Computer Science courses in programming, operating systems, and discrete mathematics with Electrical Engineering courses in digital circuits and systems, embedded microprocessor systems, and signal processing. This combination gives you a broad-based education that ties software to hardware and theory to application.

SKILLS DEVELOPED

- Programming: C/C++/C#, MATLAB, Python
- FPGAs: ModelSim, Quartus Prime, DE1 Boards
- Circuit Analysis & Simulation: LTspice
- Technical Electives Include: Robotics Programming, Machine Vision, PLCs, Mobile Robotics, Mobile Apps, Sustainable Energy



ROBOTICS AND AUTOMATION LABORATORY

Our multi-million dollar facility is one of the most complete and advanced of its kind in the country. The lab includes 18 industrial robots, 8 mobile robots, and various vision systems, sensors, and conveyor systems.

CAREER OPPORTUNITIES

The program boasts a 100% placement rate, and most students pursue paid summer internships in the field. Our engineering graduates have a pass rate on the Fundamentals of Engineering Exam over 10 percentage points higher than the national average, become part of a strong alumni network, and are qualified to work in the following technical areas:

- Aerospace
- Automotive/Transportation
- · Computer Design
- Embedded Systems
- Medical Technology
- Renewable Energy
- Robotics
- · Software Development



Engineering Technology Accreditation Commission

The School of Engineering & Technology's Computer Engineering bachelor's degree program is accredited by the Engineering Accreditation Commission of ABET, http://www.abet.org, under the commission's General Criteria and Program Criteria for Computer Engineering.

EMPLOYERS OF LSSU GRADUATES

- AMT
- FANUC
- Honda

- Boeing
- Gentex
- JR Automation

- Continental
- GM
- KUKA

- Ford
- Honeywell
- Nexteer

CONSENSUS RANKED SCHOOLS MICHIGAN

LSSU.edu/ApplyFree

School of Engineering and Technology

Contact: 906-635-2207 • engineering@lssu.edu School Chair: Dr. Paul Weber

COURSE & CLUB INFO COMPUTER ENGINEERING

Major Engineering Requirements

Introduction to Engineering
Digital Fundamentals
Digital Design
Introduction to Computer Programming
Principles of Programming
Data Structures and Algorithms
Microcontroller Fundamentals
Microcontroller Systems
Operating Systems Concepts
Circuit Analysis
Electronic Devices
Linear Algebra & Numerical
Applications
Introduction to Signal Processing

Core Engineering Requirements

Calculus I-III
Probability and Mathematical Statistics
Differential Equations
Applied Physics for Engineers and
Scientists I & II
General Chemistry

Capstone Options

Industry-Sponsored Senior Projects Engineering Research Projects Cooperative ("Co-op") Projects

Additional General Education and Free Electives are required.

For a detailed breakdown of courses, requirements, and descriptions, visit LSSU.edu/catalog

JOIN THE CLUB!

LSSU offers student chapters of international engineering organizations such as:

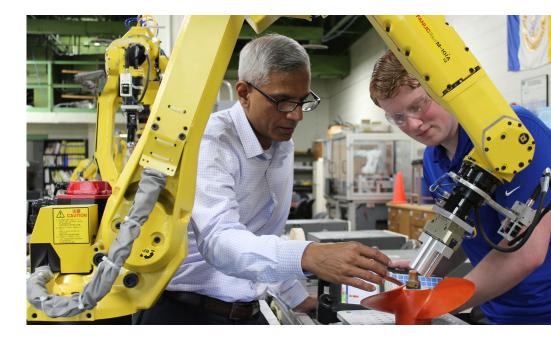
- Society of Women Engineers (SWE)
- Society of Automotive Engineers (SAE)
- The American Society of Mechanical Engineers (ASME)
- Institute of Electrical and Electronics Engineers (IEEE)

DUAL MAJOR OPTION

Students can dual major in Computer Engineering and Robotics, Electrical, or Mechanical Engineering in 4 to 4 ½ years after completing 4 extra courses

SCHOLARSHIPS

Engineering-specific scholarships are available for admitted students. Learn more at LSSU.edu/EngScholarships



Follow us on Social Media @LSSUEngineering

LAKE SUPERIOR STATE UNIVERSITY

Founded in 1946, Lake Superior State University is ensuring graduates are career-ready by providing real-world experiences in over 65 degree programs. Our faculty teach lifelong skills through guided research, industry-based projects, internships, and community service. We are located in Sault Sainte Marie, Michigan, surrounded by three Great Lakes and 8.8 million acres of state and national forests, making our campus an unsurpassed location for research and outdoor fun. Our students enjoy activities including hiking, fishing, and canoeing, while living in a welcoming and friendly college town.





\$22 Million in financial aid awarded annually



16:1 student/faculty ratio



Grads rate education experience 90% positive



100% placement in Engineering, Nursing, Education, and Geology