Computer Engineering

College of Engineering and Applied Sciences

WESTERN MICHIGAN UNIVERSITY

Reasons to choose our program...

The **Master of Science in Engineering (Computer)** in the Western Michigan University Department of Electrical and Computer Engineering offers studies in a variety of areas including digital design, computer architecture, digital electronics, real-time embedded systems and fuzzy logic. The program is offered within an environment of engagement, innovation and leadership.

Students complete courses from the computer engineering concentration area (computer architecture and digital design). In addition, they choose an elective concentration area from:

- Communications and signal processing
- Control systems
- Electronics and power systems

A thesis option is available in lieu of an elective concentration area.

An **Accelerated Graduate Degree Program** in computer engineering is available to WMU juniors and seniors to begin accumulating as many as 12 credits (four courses) toward the completion of a master's degree while completing their bachelor's degree. Students pay undergraduate tuition rates for these courses.

Points of Pride

- The department houses instructional laboratories in electric circuits, digital logic, energy conversion systems, microcomputer systems and programmable digital systems and digital and analog electronics.
- Additionally, dedicated laboratories support work in faculty research areas.
- Faculty are internationally recognized experts in their fields of study.

Funding

A limited number of graduate assistantships are awarded through a selective and highly competitive process.

Teaching, Research and Program Focus Areas

Department faculty have a strong record in funded research and scholarly activity. Current faculty research areas include:

- Biomedical engineering
- Circuits and systems
- Communications and networking
- Computer architecture and systems
- Control systems
- Electric power and energy conversion
- Fuzzy logic
- Image processing
- Medical electronics
- Neural networks
- Parallel computing
- Power electronics systems
- Printed electronics
- Real-time embedded systems
- Reconfigurable digital systems
- Semiconductor materials
- Sensors and nanotechnology
- Signal processing

Admission

Domestic and International Deadlines

Fall: April 1
Spring: Oct. 1
Summer I: Jan. 10

Department of Electrical and Computer Engineering

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