Degrees Available at SIUE
Bachelor of Science in Electrical Engineering
Bachelor of Science in Computer Engineering
Master of Science in Electrical Engineering

Accreditation
Accreditation Board for Engineering and Technology (ABET)

Why Electrical and Computer Engineering?
Electrical and Computer engineers handle the design, development, and use of computer systems. They have strong analytical skills and practical design approaches derived from traditional electrical engineering and computer science. This skill set allows them to apply principles from circuit design, semiconductor physics, and computer organization to computer hardware design. They also work in software design, application development, computer connectivity, and data networking. Computer engineers are responsible for designing a wide spectrum of products that include the fastest supercomputers and the more familiar desktop PCs and work stations.

They also are indispensable team members for engineering groups designing computers into non-computing equipment such as automobiles. As computers’ presence expands throughout everyday life and they become integrated into an increasing variety of products, computer engineers are at the forefront of the industry trend to merge computing with communications and consumer electronics. As in other engineering disciplines, working computer engineers must design practical, economical systems and find innovative solutions to complex, often multifaceted, problems. They find employment with private industry, government agencies, and contractors. Over the next several years, the industry expects a shortage of computer engineers

Why SIUE Electrical and Computer Engineering?
The SIUE School of Engineering educates electrical and computer engineers in an environment of liberal education. What does this mean to you? It means that when you graduate, not only will you hold the content knowledge and professional skill to be a computer engineer, but you will also have the ability and frame of reference to be a leader in the global marketplace.

We concentrate on developing your engineering knowledge, but just as importantly, we are concerned with developing your interpersonal abilities, tapping into your creativity and helping you understand the cultural, ethical and social issues facing today’s engineer. We are very proud of our cross-disciplinary approach that crosses boundaries and prepares you to apply what you have learned in a traditional or nontraditional engineering profession. With an engineering degree from SIUE, you will have that choice.

Career Outlook
Electrical engineering graduates will find employment opportunities in a number of different environments. Most engineers work in private industry or in government contract programs. Others work for government agencies. A small percentage of engineers work in educational institutions, though this usually requires an advanced degree. Another small percentage work as self-employed consultants, but these are persons with years of experience.

Engineers may pursue two major career paths: performing technically-related activities or managing technical projects and organizations. Most engineers spend their entire careers in technically-related pursuits. There is greater need for technically-oriented workers, and most engineers prefer these careers over management careers. Furthermore, managerial responsibility usually is given only after a number of years of experience. Either avenue may be rewarding.