Degrees Available at SIUE
• Master of Science in Electrical and Computer Engineering
• PhD in Engineering Science, a cooperative program with SIU Carbondale

Combined Program
• Early Entry BS and MS in Electrical and Computer Engineering

Other Engineering Graduate Programs at SIUE
• Civil Engineering
• Computer Science
• Industrial Engineering
• Mechanical Engineering

Program Format
The program can be completed through a mix of traditional daytime courses and courses offered on evenings/weekends.

Electrical and Computer Engineering at SIUE
For the Master of Science in electrical and computer engineering, the School of Engineering offers courses primarily in the areas of communication systems, computer systems, computer vision and image processing, power, control systems, IC design, and signal processing.

Career Opportunities
Top-rated companies such as Boeing, Anheuser-Busch InBev and many more hire SIUE graduates. Stand out by earning a graduate degree in electrical and computer engineering. By building on an undergraduate foundation and conducting research alongside expert faculty at SIUE, students can enhance their skills in systems analysis and design, engineering design and development, applications design and technical sales, production and manufacturing, or field service and user training. Many faculty members in the Department of Electrical and Computer Engineering are well-respected consultants outside academia, and are excellent professional resources.

Admission Requirements
• Graduate School application and $40 fee
• Submission of all postsecondary academic transcripts
• Successful completion of a bachelor's degree prior to enrollment
• Undergraduate GPA of at least 2.75 (A=4.0) in engineering, mathematics, and physical science courses.
• International Applicants
  ° It is highly recommended that GRE scores are submitted.
  ° Proof of English Proficiency, minimum requirements are TOEFL (79), IELTS (6.5) or equivalent

Program application materials may be uploaded during the application process, but official transcripts must be sent directly from the school attended, and test scores must be verifiable with the appropriate testing service. Please contact the Graduate Admissions office with questions regarding the application submission process at graduateadmissions@siue.edu.

Applicants should normally have a baccalaureate degree in electrical/computer engineering from an ABET-accredited program. Applicants whose undergraduate studies were completed at institutions in countries other than the United States must have a baccalaureate degree in electrical/computer engineering comparable to the United States bachelor’s degree.

Applicants with degrees other than a baccalaureate degree in electrical/computer engineering will be considered on an individual basis. Those with baccalaureate degrees in other science and engineering disciplines may be admitted, subject to completion of appropriate undergraduate electrical and computer engineering courses.

In exceptional cases, the graduate admissions committee may consider applicants who meet all Graduate School admission standards but who do not meet certain specified program admission requirements. The committee may consider other evidence that indicates high promise of the applicant's success in the program. Such supportive evidence may include extensive professional experience, published research, patents, or outstanding graduate-level work at another institution.
**Admission Requirements cont.**
After admission and before enrolling in any courses, students are required to meet with the graduate program director who appoints, in consultation with the student, an advisory committee suited to each student’s background and interests. The chair of the advisory committee serves as the student’s academic advisor. Students are urged to file an approved plan of study with their academic advisor by the end of the first term of enrollment in the program.

**Graduation Requirements**
When all other program requirements are satisfied, the advisory committee will schedule an exit oral presentation or examination. The format of the presentation or examination will be determined by the student’s advisory committee.

**Curriculum**
The program of study requires a minimum of 33 semester hours of graduate credit, at least 18 of which must be at the 500-level. Program core requirement specifies at least one course from each of the following two areas:
- Signals and Systems: ECE 532, 535, 539, 563, or 574
- Computer Systems: ECE 538, 577, 581, 582, 584, or 585

In addition, ECE 510 is highly recommended for all graduate students.

Up to six hours may be taken in out-of-department courses. The out-of-department courses can be any graduate-level courses in the School of Engineering, biological sciences, chemistry, environmental sciences, mathematics and statistics, or physics, or be approved by the advisor.

Thesis and non-thesis options of study are available.

**Thesis option**
The program consists of the core courses, elective courses, and thesis work in the amount of six credit hours. The student will be guided by the advisor with the assistance and concurrence of the advisory committee. Thesis work involves an intensive research effort and generally requires two semesters to complete.

**Non-thesis option**
The program consists of the core courses, elective courses, and may include a research project. The research project is a component of any 500-level course approved by the advisory committee. The student will be guided by the advisor with the assistance and concurrence of the advisory committee.

**Contact Information**
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This information is concurrent with the 2020-2021 Academic Catalog. Courses are subject to change at any time.