

CONTACT PERSON(S):

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ADDRESS:

School of Electrical, Computer,
and Biomedical Engineering
Engineering Building E,
Room 202, MC 6603
2130 Lincoln Drive
Carbondale, IL 62901

WEBSITE:

<https://engineering.siu.edu/elec/graduate/online-me-ecbe.php>

REQUIRED COURSES:

TOTAL HOURS NEEDED: 30

The program is available 100% online with asynchronous (live broadcast lectures) or synchronous learning. It provides the necessary credentials for career advancement in electrical/computer/electronics/data engineering fields.

Available courses taught by faculty in the following areas:

- Clean Electric Energy, Electric/Hybrid Vehicles, Power Systems, Power Systems Analysis
- Hardware and Software aspects in Computer Engineering, Electronics, and VLSI
- Digital Signal Processing, Control, Mechatronics, Communications, Photonics
- Data analysis, Machine Learning, Deep Neural Networks, Hardware/Software codesign for Deep Learning

TARGET AUDIENCE:

Working professionals with a bachelor's degree in engineering, computing, physics, and relevant fields to enhance their skills and rise to the challenge of leadership, desiring to pursue a career path in Electrical Engineering, Computer Engineering, Electronics Engineering, or Engineering aspects in data analysis and AI.

ADMISSION REQUIREMENTS:

Programming fundamentals, Calculus I & II, electric circuits, signals and systems. Students who have not completed these undergraduate courses may be admitted conditionally and should complete these requirements prior to registering for Graduate level courses. In some cases, they may be taken concurrently. The student will need to contact Shannon Oxendine, ecbe@siu.edu, if this is desired.

COST: For the cost of the program, the Graduate School has a link for a Tuition and Fees Calculator: <https://tuition.siu.edu/>.

ACADEMIC CALENDAR:

Semester basis.
Summer Semester: 6/10/2024
Fall Semester: 8/19/2024
Spring Semester: 1/13/2025

To see the academic calendars, the Registrar's Office has them posted per academic year here:
<https://registrar.siu.edu/calendars/academic.php>.

TEXTBOOK PURCHASE:

Textbooks can be ordered online.

TRANSFER HOURS POLICY:

There is no specific residency requirement for the Master's degree. SIU will only accept 6 credit hours of transfer credit, so the student will have to take 24 credit hours to meet the Master's degree requirement of 30 credit hours. The 42 semester hours could be changed to 24.

FINANCIAL AID INFO:

Available through SIU's Financial Aid Office.

SPECIAL CHARACTERISTICS:

Assistance in applying to the program, and access to advisers. All courses are taught by faculty in the School of Electrical, Computer, and Biomedical Engineering at SIUC. A variety of offered courses allow you to specialize in Electrical Engineering, Computer Engineering, Electronics Engineering, or data analysis and AI for engineering applications.