SIU CARBONDALE Southern Illinois University

Electrical Engineering Technology

Electrical Engineering Technology is part of the technological field that requires the application of scientific and engineering knowledge and methods combined with technical skills in support of engineering activities; it lies in the occupational spectrum between the technician and the engineer at the end of the spectrum closest to the engineer.

The Electrical Engineering Technology program strives to offer a high quality education to our students, with the goal of attaining the following Program Educational Objectives (PEOs) within a few years of graduation:

1. Understand the role of engineering technologists in industry and understand the opportunities for advancement relative to the field of technology.
2. Understand and develop work ethics based on professionalism and understand the engineering discipline.
3. Apply scientific and engineering principles and theories to technology and engineering problems.
4. Develop competency in the application of engineering technology including design, problem-solving, testing, and integration.
5. Communicate effectively by developing efficient written and oral communication skills.
6. Develop interpersonal skills through design work in teams, group research projects, and group homework assignments.
7. Conduct laboratory work properly and safely.
8. Use internet-based technologies as a supplement to traditional library research methods.

The undergraduate program in electrical engineering technology is accredited by the Engineering Technology Accreditation Commission of ABET, www.abet.org. For each curriculum, a minimum of 30 hours in engineering technology courses must be taken in residence at Southern Illinois University Carbondale.

Bachelor of Science Degree in Electrical Engineering Technology

The electrical engineering technology major is designed to prepare technologists who are capable of technical design and who can contribute to the development, production, testing, and installation of electrical and electronic devices, circuits, and systems. In addition, graduates are capable of participation in the planning and installation of power distribution systems and operating and maintaining complex electrical systems. Graduates of the program are employed in communications, power, electronics, sales, manufacturing, and other fields.

Capstone Option for Transfer Students

A Capstone Option may be available in the electrical engineering technology major and is explained on the Capstone Option page. Students holding associate degrees of at least 60 semester hours in non-baccalaureate-oriented programs or equivalent certification with a minimum grade point average of 2.0 are qualified. For the electrical engineering technology major, the associate degree or equivalent certification should be in an electrical or electronics-related field. This option permits qualified students to fulfill their degree requirements by completing 60 semester hours of work approved by the Capstone advisor. Each individual’s program of study may differ according to the previous academic work.

Electrical Engineering Technology Major

Degree Requirements		Credit Hours
University Core Curriculum Requirements [1]		39
Foundation Skills	13	
ENGL 101, ENGL 102	6	
Mathematics (substitute Mathematics in major)	3	
CMST 101	3	
UNIV 101	1	
Disciplinary Studies	23	
Fine Arts	3	
Human Health (BIOL 202)	2	
Humanities	6	
Science (substitute PHYS in major)	6	
Social Science	6	
Integrative Studies	3	
Multicultural	3	
Requirements for Major in Electrical Engineering Technology		(9)+81
PHYS 203A, PHYS 203B, PHYS 253A, PHYS 253B	(6)+2	
MATH 111, MATH 150, MATH 282	(3)+8	
MGMT 202	3	
ENGR 222, CS 202, ECE 222	2	
EET 150, EET 238, EET 245, or ECE 235, EET 304A, EET 304B, EET 332A, EET 332B, EET 403A, EET 403B, EET 437A, EET 437B, EET 438A, EET 438B, EET 439, EET 495A, EET 495B	56	
Technical electives	10	
Total		120

[1] *Courses in parentheses will also apply towards 6 hours in the University Core Curriculum, making a total of 39.*

Last updated: 03/26/2020

Southern Illinois University
Carbondale, IL 62901
Phone: (618) 453-2121

Catalog Year Statement:
Students starting their collegiate training during the period of time covered by this catalog (see bottom of this page) are subject to the curricular requirements as specified herein. The requirements herein will extend for a seven calendar-year period from the date of entry for baccalaureate programs and three years for associate programs. Should the University change the course requirements contained herein subsequently, students are assured that necessary adjustments will be made so that no additional time is required of them.