

ENGINEERING SYSTEMS TECHNOLOGY, ENERGY UTILITY TECHNOLOGY - CERTIFICATE



ETUT

Knight Campus, Warwick only

This concentration program provides students with a core set of skills and competencies required by the energy industry. Coursework covers technical math, safety, AC and DC circuits and controls, the business side of the energy industry, operations and technology. Workplace readiness skills are integrated into the curriculum including critical thinking, problem solving, time management and teamwork. Hands-on training is provided through a nine-week field practicum (one day per week/eight hours per day) where students apply theoretical classroom knowledge in a real-world environment. Students are required to complete experiments with lab reports, special projects and a portfolio illustrating key learning outcomes.

This program is offered as a full-time, daytime program, starting in the fall semester. Some courses can be taken in the evening. Full-time students can complete the certificate in as little as two semesters. All credits earned for the certificate will apply toward the Engineering Systems Technology- Energy Utility track (ETPT) A.S. degree.

Note: Many courses require prerequisites, corequisites and/or testing. See course descriptions for details (<https://catalog.ccri.edu/course-descriptions/>).

Certificate Requirements

Code	Title	Hours
ETEE 1050	Introduction to Electromechanical Systems	3
ETEE 1500	Electrical Systems I (Spring only) ¹	3
ETEE 1800	Introduction to Digital Systems	3
ETEE 2390	Electrical Power Systems (Spring only) ¹	3
ETUT 1060	Energy Industry Safety (Fall only)	3
ETUT 1160	Introduction to Energy Utility Industry (Fall only)	3
ETUT 2500	Energy Industry Practicum and Capstone (Spring only)	3
MATH 1179	Applied Technical Mathematics I	3
PHYS 1070	Introduction to Renewable Energy (Spring only)	3
Total Hours		27

¹ Seven-and-a-half week course

Recommended Course Sequence

Course	Title	Hours
Year 1		
Semester 1		
Fall:		

ETEE 1050	Introduction to Electromechanical Systems	3
ETEE 1800	Introduction to Digital Systems	3
ETUT 1060	Energy Industry Safety (Fall only)	3
ETUT 1160	Introduction to Energy Utility Industry (Fall only)	3
MATH 1179	Applied Technical Mathematics I	3
Hours		15
Semester 2		
Spring:		
ETEE 1500	Electrical Systems I (Spring only) ¹	3
ETEE 2390	Electrical Power Systems (Spring only) ¹	3
ETUT 2500	Energy Industry Practicum and Capstone (Spring only)	3
PHYS 1070	Introduction to Renewable Energy (Spring only)	3
Hours		12
Total Hours		27

¹ Seven-and-a-half week course