

# Energy Utility Technology Concentration (ETUT)

## Certificate in Engineering Systems Technology (CERT\_ETST)

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.

At the present time, National Grid can accommodate the first 20 students accepted into the program for its practicum. All other students will be assigned an alternate practicum.

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 towards the Engineering Systems Technology A.S. degree.

**Note:** Many courses require prerequisites, corequisites and/or testing. [See course descriptions for details.](#)

### RECOMMENDED COURSE SEQUENCE

- First semester: ETEE 1050, 1800; ETUT 1060, 1160; MATH 1179
- Second semester: ETEE 1500, 2390; ETUT 2500; PHYS 1070

### Certificate Requirements

COURSE NO.	COURSE TITLE	COURSE NOTES	CREDITS
ETEE 1050	Introduction to Electromechanical Systems		3
ETEE 1500	Electrical Systems I (Formerly ETEK 1060)	Seven-and-a-half week course	3
ETEE 1800	Introduction to Digital Systems		3
ETEE 2390	Electrical Power Systems (Formerly ETEK 2390)	Seven-and-a-half week course	3
ETUT 1060	Energy Industry Safety		3
ETUT 1160	Introduction to Energy Utility Industry		3
ETUT 2500	Energy Industry Practicum and Capstone		3
MATH 1179	Applied Technical Mathematics I		3
PHYS 1070	Introduction to Renewable Energy		3
Total Certificate Requirements Credits			27
<b>Total Program Credits</b>			<b>27</b>