Concentration in Power Engineering
for students receiving the B.S. degree in Electrical Engineering

Overview of Requirements:

Course Requirements:
- EET 321 - Electro-Mechanical Energy Conversion
- ECE 427 - Electric Power Systems, or EET 323 - Power Systems Analysis
- 6 additional credits from approved power elective courses

Additional Requirements:
- Of the courses used to complete the concentration, at least seven credits must be beyond those needed to satisfy the Electrical Engineering degree.

GPA Requirement: 2.0

Minimum Grade Requirement: C- or better for all courses used to satisfy the concentration

Contact Information: Donald Hummels, Professor and Chair of ECE, 101 Barrows Hall, 207-581-2223, donald.hummels@maine.edu

The Power Concentration for Electrical Engineering majors reflects an increased background in the generation and delivery of electric energy. Students complete a collection of core and elective courses with emphasis in the design, control, and application of power and energy systems. This concentration prepares students for working in the power utility industry, construction industry, submarine and aircraft manufacturing, and/or attending graduate school for research and development in smart grid, renewable energy, and other electric energy related technologies.

To complete a Concentration in Power Engineering, students receiving the B.S. degree in Electrical Engineering must complete the required power concentration core courses, and at least six credits of approved power elective courses. Of the courses used to complete the concentration, at least seven credits must be beyond the base requirements for the Electrical Engineering degree.

Power Concentration Core Courses (required):
- EET 321 - Electro-Mechanical Energy Conversion
- ECE 427 - Electric Power Systems OR EET 323 - Power Systems Analysis

Approved Power Elective Courses (6 credits):
- EET 276 - Programmable Logic Controllers
- ECE 450 - Power Electronics
- ECE 455 - Electric Drives
- EET 460 - Renewable Energy and Electricity Production
- EET 498 - Selected Topics in Electrical Engineering Technology*
- ECE 498 - Selected Topics in Electrical and Computer Engineering*

* “Selected Topics” courses must be related to the power engineering area, and are accepted at the discretion of the ECE chair.