

# ELECT & COMP ENGR- PROFESSIONAL (ECEP)

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**ECEP 6301. Power System Control and Operation. 3 Credit Hours.**

Introduction to methods for the real time operation and control of power systems; to study the hardware and software technologies of modern energy management systems. Credit will not be awarded for both ECEP 6301 and ECE 6320.

**ECEP 6304. Power Systems Economics. 3 Credit Hours.**

Comprehensive introduction to electricity economics, including economic theory, markets, and policy. Renewable energy, information systems, smart grid, and consumers examined as drivers for market architecture.

**ECEP 6305. Power System Planning & Reliability. 3 Credit Hours.**

To introduce basic concepts as well as analysis and optimization techniques underlying reliability assessment of electric power systems and planning techniques. Credit not awarded for both ECEP 6305 and ECE 6322.

**ECEP 6310. Capstone Project. 3 Credit Hours.**

Apply methods and techniques learned throughout the program to conduct energy system design. Students prepare a project proposal leading to a final report and presentation.

**ECEP 6351. Power System Protection. 3 Credit Hours.**

The theory and practice of modern power system protection techniques. Credit will not be awarded for both ECEP 6351 and ECE 6323.

**ECEP 8803. Special Topics. 3 Credit Hours.**

Special topics for ECEP.

**ECEP 8813. Special Topics. 3 Credit Hours.**

Special topics in ECEP.

**ECEP 8823. Special Topics. 3 Credit Hours.**

Special Topics for ECEP.