

# POWER ENGINEERING (GRADUATE CERTIFICATE)

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The Electrical and Computer Engineering Department offers a 12-credit certificate program in Power Engineering. The courses provide the necessary knowledge at an advanced level to engage in the analysis and design of electrical power and energy systems. Students will learn how to model major components used in the generation and distribution of power including power electronics, electric machines, electric drives, transmission line, and protection devices. They will also learn how to analyze such components, systems, and methods for grid, microgrid, electrified transportation, and other applications.

## Required Courses

Course	Title	Credits
ECE 5510	Power System Analysis	3
ECE 5520	Advanced Power Electronics	3
ECE 5530	Modeling and Control of Electric Drives	3
ECE 5540	Electrical System Protection and Switchgear	3
<b>Total Credits</b>		<b>12</b>