

# ECSE 564. POWER SYSTEMS DYNAMICS AND CONTROL.

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Credits: 4

Offered by: Electrical & Computer Engr (Faculty of Engineering)

Terms offered: Winter 2026

[View offerings for Winter 2026 in Visual Schedule Builder.](#)

## Description

Modern power systems: power plants, conventional generation and distributed inverter-based generation, ac and dc transmission systems, power system dynamics and stability issues. Modeling for operation, control and stability studies: power system components; synchronous machines and control systems; inverter-based generation and controls. Dynamic and stability studies. Control methods for enhancing flexibility and improving stability

- (3-0-9)
- Prerequisite: ECSE 362 (or equivalent)

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