

# ECSE 331. ELECTRONICS.

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Credits: 4

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

Terms offered: Fall 2025, Winter 2026

View offerings for Fall 2025 or Winter 2026 in Visual Schedule Builder.

## Description

Introduction to electronic circuits using operational amplifiers, PN junction diodes, bipolar junction transistors (BJTs), and MOS field-effect transistors (MOSFETs), including: terminal characteristics, large- and small-signal models; configuration and frequency response of amplifiers with discrete biasing. Introduction to SPICE. Lab work involving simulation experiments and testing of simple circuits using discrete transistors.

- (3-4-5)
- Prerequisite(s): ECSE 210
- (3-4-5)

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