

COURSE DETAIL

ELECTRONIC CIRCUIT DESIGN

Country

Australia

Host Institution

University of Sydney

Program(s)

University of Sydney

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Electrical Engineering

UCEAP Course Number

119

UCEAP Course Suffix**UCEAP Official Title**

ELECTRONIC CIRCUIT DESIGN

UCEAP Transcript Title

ELECTRNC CIRC DESGN

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course covers analysis and design techniques for electronic systems such as signal amplifiers, differential amplifiers, and power amplifiers. Topics include the BJT and MOSFET as an amplifier, biasing in amplifier circuits, small signal operation and models, single stage amplifiers, internal capacitances and high frequency models, the frequency response of the common-emitter amplifier, current sources and current mirrors, differential amplifiers, output stages, and power amplifiers.

Language(s) of Instruction

English

Host Institution Course Number

ELEC3404

Host Institution Course Title

ELECTRONIC CIRCUIT DESIGN

Host Institution Course Details**Host Institution Campus**

sydney

Host Institution Faculty**Host Institution Degree****Host Institution Department**

Electrical and Information Engineering

Course Last Reviewed

[Print](#)