# COURSE DETAIL

| ELECTRONIC CIRCUIT DESIGN |
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| **Country**<br>Australia |
| **Host Institution**<br>University of Sydney |
| **Program(s)**<br>University of Sydney |
| **UCEAP Course Level**<br>Upper Division |
| **UCEAP Subject Area(s)**<br>Electrical Engineering |
| **UCEAP Course Number**<br>119 |
| **UCEAP Course Suffix** |
| **UCEAP Official Title**<br>ELECTRONIC CIRCUIT DESIGN |
| **UCEAP Transcript Title**<br>ELECTRNC CIRC DESGN |
| **UCEAP Quarter Units**<br>6.00 |
| **UCEAP Semester Units**<br>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**

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