ELECTRICAL ENGINEERING
MAJOR REQUIREMENTS

2015-16

ELECTRICAL AND COMPUTER ENGINEERING STUDENT AFFAIRS OFFICE | JACOBS HALL 2701 & 2702 | ECE.UCSD.EDU

▶ Due to six different college requirements, only **major** requirements are listed below.

▶ Students must speak to their College Advisor for questions regarding General Education and University of California requirements.

▶ ALL courses used to satisfy major requirements must be taken for **a letter grade and passed with a C– or better.**

Lower Division (68 units)
MATH 20A, 20B, 20C, 20D, 20F, 20E
PHYS 2A, 2B, 2C, 2D
CHEM 6A
ECE 15, 25, 30, 35, 45, 65

Upper Division (72 units)
Breadth:
ECE 100, 101, 102, 103, 107, 109

Depth (5 courses. Pick one below):
Communication Systems: ECE 153, ECE 154A, ECE 154B, ECE 154C, and ECE 158A

Students must select an upper division ECE course to satisfy the 5th Depth course in the following Depth sequences:

Electronics Circuits & Systems: ECE 163, 164, 165, 166
Electronic Devices & Materials: ECE135A, ECE 135B, ECE 136L, ECE 183
Machine Learning & Controls: ECE 171A, ECE 174, ECE 175A, one of ECE 171B, ECE 172A, or ECE175B
Photonics: ECE 181, ECE 182, ECE 183 and either ECE 184 or ECE 185
Signal and Image Processing: ECE 153, ECE 161A, ECE 161B, ECE 161C
Computer System Design: CSE 141, ECE 165 and any two of ECE 118, ECE 158A, ECE 111 or CSE 143

Technical Electives:
four upper division engineering, math, or physics courses

Professional Electives:
three upper-division courses

Design:
one of ECE 111, 190, or 191