**ECE Courses at Cal Poly Pomona**

A description of courses can be found in the Cal Poly Pomona online catalog: <https://catalog.cpp.edu/content.php?catoid=68&navoid=5680#ent5643>

Filter them for the prefix ECE to list Electrical and Computer Engineering courses.

ECE 1101 - Electrical Circuit Analysis I (3)

ECE 1101L - Electrical Circuit Analysis I Laboratory (1)

ECE 1310 - C For Engineers (3)

ECE 1320 - Discrete Structures (3)

ECE 2000 - Special Study for Lower Division Students (1-3)

ECE 2101 - Electrical Circuit Analysis II (3)

ECE 2101L - Electrical Circuit Analysis II Laboratory (1)

ECE 2200 - Introduction to Microelectronics Circuits (3)

ECE 2200L - Introduction to Microelectronics Circuits Laboratory (1)

ECE 2300 - Digital Logic Design (3)

ECE 2300L - Digital Logic Design Laboratory (1)

ECE 2310 - Object Oriented Programming (3)

ECE 3101 - Signals and Systems (3)

ECE 3101L - Signals and Systems Laboratory (1)

ECE 3200 - Microelectronic Devices and Circuits (3)

ECE 3200L - Analog Microelectronics Laboratory (1)

ECE 3201 - Instrumentation Systems (3)

ECE 3201L - Instrumentation Systems Laboratory (1)

ECE 3250 - Electromagnetic Fields (3)

ECE 3300 - Digital Circuit Design Using Verilog (3)

ECE 3300L - Digital Circuit Design Using Verilog Laboratory (1)

ECE 3301 - Introduction to Microcontrollers (3)

ECE 3301L - Introduction to Microcontrollers Laboratory (1)

ECE 3310 - Data Structures and Algorithms (3)

ECE 3709 - Control Systems Engineering (3)

ECE 3709L - Control Systems Engineering Laboratory (1)

ECE 3715 - Probability, Statistics, and Random Processes for Electrical and Computer Engineers (3)

ECE 3810 - Introduction to Power Engineering (3)

ECE 3810L - Power Engineering Laboratory (1)

ECE 4000 - Special Study for Upper Division Students (1-3)

ECE 4064 - Professional Engineering Practice (1)

ECE 4200 - CMOS Analog Circuits (3)

ECE 4200L - CMOS Analog Circuits Laboratory (1)

ECE 4201 - Advanced Analog Circuit Design (3)

ECE 4201L - Advanced Analog Circuit Design Laboratory (1)

ECE 4203 - VLSI (Very Large Scale Integrated) Circuit Design (3)

ECE 4203L - VLSI (Very Large Scale Integrated) Circuit Design Laboratory (1)

ECE 4220 - Image Sensors (3)

ECE 4250 - Fields and Waves in RF Electronics (3)

ECE 4251 - RF Design (3)

ECE 4252 - Integrated Circuit Design for Wireless Systems (3)

ECE 4260 - Introduction to Photonics (3)

ECE 4300 - Computer Architecture (3)

ECE 4301 - Cryptographic Algorithms on Reconfigurable Hardware (3)

ECE 4303 - TCP / IP Internetworking (3)

ECE 4303L - TCP / IP Internetworking Laboratory (1)

ECE 4304 - Discrete System Design Using VHDL (3)

ECE 4304L - Discrete System Design Using VHDL Laboratory (1)

ECE 4305 - Advanced Digital Design Using Verilog HDL (3)

ECE 4305L - Advanced Digital Design Using Verilog HDL Laboratory (1)

ECE 4309 - Fundamentals of Cybersecurity (3)

ECE 4310 - Operating Systems for Embedded Applications (3)

ECE 4311 - Network Forensics (3)

ECE 4317 - Intelligence Systems for Engineering (3)

ECE 4318 - Software Engineering (3)

ECE 4319 - Application Development Using JAVA (3)

ECE 4320 - Microprocessor-based System Design (3)

ECE 4320L - Microprocessor-based System Design Laboratory (1)

ECE 4703 - Mobile Autonomous Robots (3)

ECE 4704 - Robotics (3)

ECE 4705 - Communication Systems (3)

ECE 4705L - Communication Systems Laboratory (1)

ECE 4708 - Digital Signal Processing (3)

ECE 4709 - Digital Communication Systems (3)

ECE 4715 - Machine Learning (3)

ECE 4719 - Advanced Control Systems (3)

ECE 4735 - Biomedical Signals, Instrumentation and Measurements (3)

ECE 4821 - Power Transmission Lines (3)

ECE 4821L - Power Transmission Lines Laboratory (1)

ECE 4822 - Power System Analysis (3)

ECE 4822L - Power System Analysis Laboratory (1)

ECE 4868 - Power Systems Electronics (3)

ECE 4869 - Power Electronics (3)

ECE 4875 - Wind and Solar Power Systems (3)

ECE 4890 - Illumination Engineering (3)

ECE 4890L - Introduction to Illumination Engineering Laboratory (1)

ECE 5110 - Numerical Modeling (3)

ECE 5150 - Matrix Methods (3)

ECE 5180 - Performance and Reliability Analysis (3)

ECE 5200 - Network Security (3)

ECE 5250 - Embedded Systems (3)

ECE 5300 - Nanoelectronics (3)

ECE 5400 - Systems Theory (3)

ECE 5430 - Random Processes (3)

ECE 5440 - Communication Theory (3)

ECE 5450 - Robust Control (3)

ECE 5460 - Advanced Software Engineering (3)

ECE 5470 - Digital Image Processing (3)

ECE 5480 - Solid State Devices (3)

ECE 5510 - Digital Signal Processing (3)

ECE 5540 - Wavelet Theory and Applications (3)

ECE 5580 - Computer Arithmetic (3)

ECE 5590 - Computer Network (3)

ECE 5600 - Information Theory and Coding (3)

ECE 5610 - Advanced Microprocessors (3)

ECE 5650 - Radar Signal Processing (3)

ECE 5660 - OFDM and CDMA Systems (3)

ECE 5670 - Natural Language Processing (3)

ECE 5680 - Introduction to Robotics, Haptics, Control and Applications (3)

ECE 5700 - Smart Grid in Power System (3)

ECE 5750 - Distribution System and Power Quality (3)

ECE 5780 - Electric Vehicle and Energy Storage (3)

ECE 5820 - Digital System Testing (3)

ECE 5840 - Design and Analysis of Computer Algorithms (3)

ECE 5850 - Computer Organization (3)

ECE 5921L - Microcontroller Applications Laboratory (1)

ECE 5930L - Digital Signal Processing (DSP) Applications Laboratory (1)

ECE 5940L - Field Programmable Gate Array (FPGA) Design Laboratory (1)

ECE 5960 - Research Methods (2)

ECE 5970L - Wireless Communication Systems Laboratory (1)

ECE 6440 - Advanced Communication Systems (3)

ECE 6510 - Advanced Signal Processing (3)

ECE 6850 - Advanced Computer Organization (3)