

Name: Plan:

Electronic Systems Engineering Technology, B.S.

2020-2021 University Catalog Degree Curriculum Sheet

Min. Units Required:

SubPlan/Option:

124 units

Major Required 79 units	General Education Requirements 48 Units
EGR1000 - Engineering, Society, and You (2) (E)	Students should consult the Academic Programs website
EGR1000L - Engineering, Society, and You Laboratory (1) (E) EGR4810 - Project Design Principles and Applications (1) (B5)	https://www.cpp.edu/~academic-programs/general-education-course-listings.shtml
EGR4820 - Project Design Principles and Applications (1) (B5) EGR4830 - Project Design Principles and Applications (1) (B5)	for current information regarding this requirement. Unless specific courses are required, please
EGR4830 - Project Design Principles and Applications (1) (B5)	refer to the list of approved courses under General Education Requirements, Areas A through E.
ETE1021 - Circuit Analysis I (3) ETE1021L - Circuit Analysis I Laboratory (1)	Area A. English Language Communication and Critical Thinking (9 units)
ETE1151 - C/C++ Programming (3)	At least 3 units from each sub-area
ETE1151L - C/C++ Programming Laboratory (1)	1. Oral Communication
ETE2041 - Electronic Devices and Circuits (3) ETE2041L - Electronic Devices and Circuits Laboratory (1)	2. Written Communication
ETE2041C - Electronic Devices and Chours Laboratory (1) ETE2101 - Circuit Analysis II (3)	3. Critical Thinking (Satisfied by completion of undergraduate Engineering degree)
ETE2101L - Circuit Analysis II Laboratory (1) ETE2301 - Digital Circuits (3)	Area B. Scientific Inquiry and Quantitative Reasoning (12 units)
ETE2301 - Digital Circuits (3)	At least 3 units from B1, B2, B4, and B5 including 1 unit of lab from B1 or B2 to fulfill B3
ETE2301L - Digital Circuits Laboratory (1) ETE2721 - Electronic CAD, Manufacturing and PCB Fabrication (1)	1. Physical Sciences
ETE2721 - Electronic CAD, Manufacturing and PCB Fabrication Laboratory (2)	2. Life Sciences
ETE2801 - Industrial Electronics and PLC's (3)	3. Laboratory Activity
ETE2801L - Industrial Electronics and PLC's Laboratory (1)	4. Mathematics/Quantitative Reasoning
ETE3351 - Electronic Communication Circuits and Systems (3) ETE3351L - Electronic Communication Circuits and Systems Laboratory (1)	5. Science and Technology Synthesis
FTE3441 - Microcontroller Applications (3)	Area C. Arts and Humanities (12 units)
ETE3441L - Microcontroller Applications Laboratory (1)	At least 3 units from each sub-area and 3 additional units from sub-areas 1 and/or 2
ETESS01 - Feedback Control Systems (3)	1. Visual and Performing Arts
ETE3501L - Feedback Control Systems Laboratory (1) ETE4201 - Electronic Test Instrumentation and Data Acquisition Systems (3)	2. Literature, Modern Languages, Philosophy and Civilization
ETE4201 - Electronic Test Instrumentation and Data Acquisition Systems Laboratory (1)	3. Arts and Humanities Synthesis
ETE4351 - Data Communication and Networking (3)	Area D. Social Sciences (12 units)
ETE4351L - Data Communication and Networking Laboratory (1)	At least 3 units from each sub-area
ETE4751 - Introduction to Robotics Control and Application (3) ETE4751L - Introduction to Robotics Control and Applications Laboratory (1)	1. U.S. History and American Ideals
ETM2121 - Applied Mechanics for Electronic Systems Engineering Technology (3)	2. U.S. Constitution and California Government
IME4020 - Ethical Concepts in Technology and Applied Science (3) (B5 or C3)	3. Social Sciences: Principles, Methodologies, Value Systems, and Ethics
MAT1300 - Technical Calculus I (4) (B4) MAT1310 - Technical Calculus II (4)	4. Social Science Synthesis
PHY1210 - Physics of Motion, Eluids, and Heat (3) (B1)	
PHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1) (B3)	Area E. Lifelong Learning and Self-Development (3 units)
PHY1220 - Physics of Electromagnetism, Circuits, and Light (3)	Interdisciplinary General Education 21 Units
PHY1220L - Electromagnetism, Circuits, and Light Laboratory (1)	An alternate pattern for partial fulfillment of GE Areas A, C, and D available for students is the
Major Electives 16 units	Interdisciplinary General Education (IGE) program. Students should see an advisor for specific
Select 16 units from the following list:	GE coursework required by their major. Please refer to the University Catalog General Education
ETE4141 - Advanced Java Programming (3) <i>and</i>	Program section for additional information.
ETE4141L - Advanced Java Programming Laboratory (1)	How IGE fulfills General Education Requirements:
ETE4371 - RF and Microwave Systems (3) and	Year Completion of IGE Courses Satisfies GE Requirements
ETE4371L - RF and Microwave System's Laboratory (1)	First IGE 1100, IGE 1200 A2 and C2
ETE4451 - Advanced Digital Design FPGA/Verilog HDL (3) and	Second/Third IGE 2100, IGE 2200 C1 and C2
ETE4451 - Advanced Digital Design Using FPGA/Verilog HDL (3) and ETE4451L - Advanced Digital Design Using FPGA/Verilog HDL Laboratory (1)	IGE 2300, IGE 2400 D1 and D3
ETE4501 - Digital Signal Processing (3) and	Third/Fourth IGE 3100 C3 or D4
ETE4501L - Digital Signal Processing Laboratory (1)	American Institutions 6 Units
ETE4521 - Photonics-Optical Communication (3) and	Courses that satisfy this requirement may also satisfy GE Area D1 and D2.
ETE4521L - Photonics-Optical Communication Laboratory (1)	American Cultural Perspectives Requirement 3 Units
ETE4801 - Introduction to Motion Control (3) and	
ETE4801L - Introduction to Motion Control Laboratory (1)	Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective
	requirements.
TT (004 Advanced in the bit in Automation Output (0) and	iequilents.
ETE4901 - Advanced Industrial Automation Systems I aboratory (1)	
ETE4901L - Advanced Industrial Automation Systems Laboratory (1)	Graduation Writing Test
ETE4901 - Advanced Industrial Automation Systems (3) and ETE4901L - Advanced Industrial Automation Systems Laboratory (1) ETE4990 - Special Topics for Upper Division Students (1-3)	
ETE4901L - Advanced Industrial Automation Systems Laboratory (1)	Graduation Writing Test All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the semester following completion of