



Name: \_\_\_\_\_  
 Plan: Electronic Systems Engineering Technology, B.S.  
 SubPlan/Option: \_\_\_\_\_  
 Min. Units Required: 124 units

**2021-2022 University Catalog  
 Degree Curriculum Sheet**

**Major Required 79 units**

- EGR1000 - Engineering, Society, and You (2) (E)
- EGR1000L - Engineering, Society, and You Laboratory (1) (E)
- EGR4810 - Project Design Principles and Applications (1) (B5)
- EGR4820 - Project Design Principles and Applications (1) (B5)
- EGR4830 - Project Design Principles and Applications (1) (B5)
- ETE1021 - Circuit Analysis I (3)
- ETE1021L - Circuit Analysis I Laboratory (1)
- ETE1151 - C/C++ Programming (3)
- ETE1151L - C/C++ Programming Laboratory (1)
- ETE2041 - Electronic Devices and Circuits (3)
- ETE2041L - Electronic Devices and Circuits Laboratory (1)
- ETE2101 - Circuit Analysis II (3)
- ETE2101L - Circuit Analysis II Laboratory (1)
- ETE2301 - Digital Circuits (3)
- ETE2301L - Digital Circuits Laboratory (1)
- ETE2721 - Electronic CAD, Manufacturing and PCB Fabrication (1)
- ETE2721L - Electronic CAD, Manufacturing and PCB Fabrication Laboratory (2)
- ETE2801 - Industrial Electronics and PLC's (3)
- ETE2801L - Industrial Electronics and PLC's Laboratory (1)
- ETE3351 - Electronic Communication Circuits and Systems (3)
- ETE3351L - Electronic Communication Circuits and Systems Laboratory (1)
- ETE3441 - Microcontroller Applications (3)
- ETE3441L - Microcontroller Applications Laboratory (1)
- ETE3501 - Feedback Control Systems (3)
- ETE3501L - Feedback Control Systems Laboratory (1)
- ETE4201 - Electronic Test Instrumentation and Data Acquisition Systems (3)
- ETE4201L - Electronic Test Instrumentation and Data Acquisition Systems Laboratory (1)
- ETE4351 - Data Communication and Networking (3)
- ETE4351L - Data Communication and Networking Laboratory (1)
- ETE4751 - Introduction to Robotics Control and Application (3)
- ETE4751L - Introduction to Robotics Control and Applications Laboratory (1)
- ETM2121 - Applied Mechanics for Electronic Systems Engineering Technology (3)
- IME4020 - Ethical Concepts in Technology and Applied Science (3) (B5 or C3)
- MAT1300 - Technical Calculus I (4) (B4)
- MAT1310 - Technical Calculus II (4)
- PHY1210 - Physics of Motion, Fluids, and Heat (3) (B1)
- PHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1) (B3)
- PHY1220 - Physics of Electromagnetism, Circuits, and Light (3)
- PHY1220L - Electromagnetism, Circuits, and Light Laboratory (1)

**Major Electives 16 units**

- Select 16 units from the following list:
- ETE4141 - Advanced Java Programming (3) *and*
  - ETE4141L - Advanced Java Programming Laboratory (1)
  - ETE4371 - RF and Microwave Systems (3) *and*
  - ETE4371L - RF and Microwave Systems Laboratory (1)
  - ETE4451 - Advanced Digital Design FPGA/Verilog HDL (3) *and*
  - ETE4451L - Advanced Digital Design Using FPGA/Verilog HDL Laboratory (1)
  - ETE4501 - Digital Signal Processing (3) *and*
  - ETE4501L - Digital Signal Processing Laboratory (1)
  - ETE4521 - Photonics-Optical Communication (3) *and*
  - ETE4521L - Photonics-Optical Communication Laboratory (1)
  - ETE4801 - Introduction to Motion Control (3) *and*
  - ETE4801L - Introduction to Motion Control Laboratory (1)
  - ETE4901 - Advanced Industrial Automation Systems (3) *and*
  - ETE4901L - Advanced Industrial Automation Systems Laboratory (1)
  - ETE4990 - Special Topics for Upper Division Students (1-3)

**General Education Requirements 48 Units**

Students should view their Degree Progress Report (DPR) for information regarding their General Education requirements. Unless specific GE courses are required for their major, please refer to the list of approved courses in the General Education Program in the University Catalog, catalog.cpp.edu. When viewing the catalog, students should select the catalog year associated with the GE requirements listed in their Degree Progress Report.

**Area A. English Language Communication and Critical Thinking (9 units)**

*At least 3 units from each sub-area*

1. Oral Communication
2. Written Communication
3. Critical Thinking (Satisfied by completion of undergraduate Engineering degree)

**Area B. Scientific Inquiry and Quantitative Reasoning (12 units)**

*At least 3 units from B1, B2, B4, and B5 including 1 unit of lab from B1 or B2 to fulfill B3*

1. Physical Sciences
2. Life Sciences
3. Laboratory Activity
4. Mathematics/Quantitative Reasoning
5. Science and Technology Synthesis

**Area C. Arts and Humanities (12 units)**

*At least 3 units from each sub-area and 3 additional units from sub-areas 1 and/or 2*

1. Visual and Performing Arts
2. Literature, Modern Languages, Philosophy and Civilization
3. Arts and Humanities Synthesis

**Area D. Social Sciences (9 units)**

*At least 3 units from each sub-area*

1. U.S. History and American Ideals
2. U.S. Constitution and California Government
4. Social Science Synthesis

**Area E. Lifelong Learning and Self-Development (3 units)**

**Area F. Ethnic Studies (3 units)**

**Interdisciplinary General Education 18 Units**

An alternate pattern for partial fulfillment of GE Areas A, C, and D available for students is the Interdisciplinary General Education (IGE) program. Students should see an advisor for specific GE coursework required by their major. Please refer to the University Catalog General Education Program section for additional information.

**How IGE fulfills General Education Requirements:**

Year	Completion of IGE Courses	Satisfies GE Requirements
First	IGE 1100, IGE 1200	A2 and C2
Second/Third	IGE 2150, IGE 2250	D1 and C2
	IGE 2350	C1
	IGE 3100	C3 or D4

**American Institutions 6 Units**

Courses that satisfy this requirement may also satisfy GE Area D1 and D2.

**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 60 units for undergraduates.