# Cal Poly Pomona

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

2019-2020 University Catalog Degree Curriculum Sheet

Major Required	81 units
EGR1000 - Engineering, Society, and You (2) (E) EGR1000 - 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) ETE1021 - Circuit Analysis I Laboratory (1) ETE1151 - C/C++ Programming (3) ETE11511 - C/C++ Programming (3) ETE2041 - Electronic Devices and Circuits (3) ETE2041 - Electronic Devices and Circuits (3) ETE2010 - Circuit Analysis II Laboratory (1) ETE2301 - Digital Circuits (3) ETE2301 - Digital Circuits (3) ETE2301 - Digital Circuits (3) ETE2721 - Electronic CAD, Manufacturing and PCB Fabrication (3) ETE2721 - Electronic CAD, Manufacturing and PCB Fabrication Laboratory (1) ETE2301 - Industrial Electronics and PLC's (3) ETE2801 - Industrial Electronics and PLC's (3) ETE2801 - Industrial Electronics and PLC's Laboratory (1) ETE3351 - Electronic Communication Circuits and Systems (3) ETE3351 - Electronic Communication Circuits and Systems (3) ETE3351 - Electronic Papplications (3) ETE3351 - Electronic Toest Instrumentation and Data Acquisition Systems (3) ETE3501 - Feedback Control Systems (3) ETE3501 - Feedback Control Systems Laboratory (1) ETE3551 - Lelectronic Test Instrumentation and Data Acquisition Systems Laboratory ETE42011 - Electronic Test Instrumentation and Data Acquisition Systems Laboratory ETE4351 - Data Communication and Networking (3) ETE4351 - Data Communication and Networking (3) ETE4351 - Introduction to Robotics Control and Applications Laboratory (1) ETE4751 - Introduction to Robotics Control and Application (3) ETE4751 - Introduction to Robotics Control and Applications Laboratory (1) ETE4751 - Introduction to Robotics Control and Application (3) ETE4751 - Introduction to Robotics Control and Application (3) ETE4751 - Poppied Mechanics for Electronic Systems Engineering Technology (4) ME4020 - Ethical Concepts in Technology and Applied Science (3) (B5 or C3) MAT1300 - Te	(1)
Major Electives	14 units
Select 14 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)	
ETE/E01 - Photonics Ontical Communication (2) and	

General Education Requirements

48 Units

Students should consult the Academic Programs website

https://www.cpp.edu/~academic-programs/general-education-course-listings.shtml

for current information regarding this requirement. Unless specific courses are required, please refer to the list of approved courses under General Education Requirements, Areas A through E.

### 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 (12 units)

At least 3 units from each sub-area

- U.S. History and American Ideals
- 2. U.S. Constitution and California Government
- 3. Social Sciences: Principles, Methodologies, Value Systems, and Ethics
- 4. Ossial Osianas Ossallassia
- 4. Social Science Synthesis

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

# Interdisciplinary General Education

21 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 2100, IGE 2200	C1 and C2
	IGE 2300, IGE 2400	D1 and D3
Third/Fourth	IGE 3100	C3 or D4

# **American Institutions**

6 Units

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

# **American Cultural Perspectives Requirement**

3 Units

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.

## **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.

ETE4521L - Photonics-Optical Communication Laboratory (1)

ETE4901 - Advanced Industrial Automation Systems (3) and

ETE4990 - Special Topics for Upper Division Students (1-3)

ETE4901L - Advanced Industrial Automation Systems Laboratory (1)

ETE4801 - Introduction to Motion Control (3) and ETE4801L - Introduction to Motion Control Laboratory (1)