

Major Required Core 81 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 (3)
- ETE2721L - Electronic CAD, Manufacturing and PCB Fabrication Laboratory (1)
- 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 (4)
- IME4020 - Ethical Concepts in Technology and Applied Science (3) (B5 or C3)
- MAT1300 - Technical Calculus I (4) (B4)
- MAT1310 - Technical Calculus II (4)
- PHY1510 - Introduction to Newtonian Mechanics (3) (B1)
- PHY1510L - Newtonian Mechanics Laboratory (1) (B3)
- PHY1520 - Introduction to Electromagnetism and Circuits (3)
- PHY1520L - Introductory Laboratory on Electromagnetism and Circuits (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)
 - 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 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)**
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)**
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)**
1. Visual and Performing Arts
 - 2a. Philosophy and Civilization
 - 2b. Literature and Language Other than English
 3. Arts and Humanities Synthesis
- Area D. Social Sciences (12 units)**
1. U.S. History and American Ideals
 2. U.S. Constitution and California Government
 3. Social Sciences: Principles, Methodologies, Value Systems, and Ethics
 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 in 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
<i>Freshman</i>	<i>IGE 1100, IGE 1200</i>	<i>A2 and C2b</i>
<i>Sophomore</i>	<i>IGE 2100, IGE 2200</i>	<i>C1 and C2a</i>
<i>Junior</i>	<i>IGE 2300, IGE 2400</i>	<i>D1 and D3</i>
<i>Senior</i>	<i>IGE 3100</i>	<i>C3 or D4</i>

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.