Major Required Core

100 units

AR02041 - Engineering Statics (3) or
CE0251 - Engineering Statics (3)
CE02551 - Mechanics of Materials (3)
CE0261 - Fluid Mechanics (3)
CHE2201 - Process and Automation (2)
CHE2201L - Process and Automation Laboratory (1)
CHM1210 - General Chemistry I (3) (B1)
CHM1210L - General Chemistry Laboratory I (1) (B3)
EC2201 - Principles of Microeconomics (3) (D3) or
EC2202 - Principles of Macroeconomics (3) (D5)

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
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
--- | --- | ---
Freshman | IGE 1100, IGE 1200 | A2 and C2b
Sophomore | IGE 2100, IGE 2200 | C1 and D2a
Junior | IGE 2300, IGE 2400 | D1 and D3
Senior | 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.

Minor Electives

5 units

Select 5 units from the following list:

IEE200 - Fundamentals of Human Factors Engineering (2)
IEE250L - Fundamentals of Human Factors Engineering Laboratory (1)
IEE160 - Operations Research I (3)
IEE170 - Operations Research II (3)
IEE190 - Reliability Concepts and Techniques (2)
IME350 - Design of Experiments (2)
IME350L - Design of Experiments Laboratory (1)
IME3341 - Net Shape Engineering (2)
IME3341L - Net Shape Engineering Laboratory (1)
IME4600 - Safety Engineering (2)
IME460L - Plastics Engineering (2)
IME460L - Plastics Engineering Laboratory (1)
IME490 - Composites Manufacturing (2)