Major Required Core

- BIO1110 - Life Science (2) (B2)
- CE1001 - Civil Engineering Laboratory (1)
- CE1001L - Civil Engineering Laboratory (1)
- CE1011 - Surveying Engineering (3)
- CE1011L - Surveying Engineering Laboratory (1)
- CE2011 - Technical Communications (5)
- CE2041 - Engineering Statics (3)
- CE2051 - Mechanics of Materials (3)
- CE2061 - Fluid Mechanics (3)
- CE2070 - Computer Programming and Numerical Methods (3)
- CHM1210L - General Chemistry Laboratory I (1) (B3)
- CHM1210L - General Chemistry Laboratory I (1) (B3)
- 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)
- GSC2100 - Engineering Geology I (2) (B5)
- ME3111 - App. of Stats in Engineering (2)
- IME4020 - Ethical Concepts in Technology and Applied Science (B5 or C3)
- MAT1140 - Calculus I (4) (B4)
- MAT1150 - Calculus II (4) (B4)
- MAT2140 - Calculus III (4)
- MAT2240 - Elementary Linear Algebra and Differential Equations (3)
- PHY1510 - Introduction to Newtonian Mechanics (3) (B1)
- PHY1510L - Newtonian Mechanics Laboratory (1) (B3)

Subplan/Option Required Core

- CE2021 - Infrastructure Economics and Public Policy (3)
- CE2030 - Civil Engineering Materials (2)
- CE2030L - Civil Engineering Materials Laboratory (1)
- EGR4000 - Role of Design Professionals In Society (3) (D4)
- PHY1520 - Introduction to Electromagnetism and Circuits (3) (B1)
- PHY1520L - Introductory Laboratory on Electromagnetism and Circuits (1) (B3)

Subplan/Option Electives

- List One (select 17 units from the following courses):
  - CE3101 - Construction Engineering (2)
  - CE3101L - Construction Engineering Laboratory (1)
  - CE3201 - Environmental Engineering (3)
  - CE3201L - Environmental Engineering Laboratory (1)
  - CE3211 - Water Resources Engineering (3)
  - CE3301 - Engineering Geomatics (3)
  - CE3401 - Geotechnical Engineering (3)
  - CE3401L - Geotechnical Engineering Laboratory (1)
  - CE3501 - Structural Analysis I (3)
  - CE3501L - Structural Laboratory I (3)
  - CE3510 - Structural Design Laboratory (1)
  - CE3510L - Transportation Engineering (3)
  - CE3510L - Transportation Engineering Laboratory (1)

- List Two (select 12 units from the following courses):
  - CE3121 - Building Systems (2)
  - CE3140 - Construction Estimating (3)
  - CE3150 - Construction Equipment and Safety (3)
  - CE3510 - Structural Analysis II (3)
  - CE3510L - Structural Testing Laboratory (1)
  - CE4331 - Sustainable Buildings and Infrastructure (3)
  - CE4340 - Construction Scheduling (3)
  - CE4340L - Construction Scheduling Laboratory (1)
  - CE4340L - Construction Contracts (3)
  - CE4340L - Construction Project Management and Accounting (3)
  - CE4371 - Virtual Design Construction and Management - BIM (2)
  - CE4371L - Virtual Design Construction and Management - BIM Laboratory (1)
  - CE4201 - Water and Wastewater Engineering (3)
  - CE4210 - Water and Wastewater Engineering Laboratory (1)
  - CE4211 - Applied Hydrology (3)
  - CE4220 - Solid and Hazardous Waste Engineering (3)

General Education Requirements

Students should consult the Academic Programs website 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

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

American Institutions

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

American Cultural Perspectives Requirement

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.