BS ENVIRONMENTAL MANAGEMENT AND PROTECTION

Program Learning Objectives
1. Demonstrate critical-thinking problem-solving skills.
2. Effectively communicate scientific and technical knowledge in a professional manner.
3. Demonstrate competency in scientific and technical knowledge related to environmental management in the following key areas:
   a. Ecology and Biology – applied ecology to inform environmental impact analysis;
   b. Measurement – identification of key ecosystem elements, indicators and range of variability; land and water quality indicators;
   c. Management and Protection – developing alternatives and mitigation measures;
   d. Social, Economic, and Political – conflict management, CEQA (California Environmental Quality Act) and NEPA (National Environmental Policy Act) interpretation and analysis, i.e., environmental impact reports (EIR), environmental impact statements (EIS), and other environmental documents.
4. Demonstrate proficiency in quantitative skills and information management specific to their discipline areas.
5. Exhibit an understanding of their professional and ethical responsibilities as forest managers, natural resources managers, environmental managers, including respect for diversity.
6. Promote life-long learning habits by exposing students to the discovery process of applied research and demonstration projects conducted by the faculty.

Degree Requirements and Curriculum
In addition to the program requirements listed on this page, students must also satisfy requirements outlined in more detail in the Minimum Requirements for Graduation (http://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext) section for this catalog, including:

- 60 units of upper division courses
- Graduation Writing Requirement (GWR)
- 2.0 GPA
- U.S. Cultural Pluralism (USCP)

Note: No major, support or concentration courses may be selected as credit/no credit.

MAJOR COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>NR 140</td>
<td>Careers in Natural Resources Management and Environmental Sciences</td>
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<tr>
<td>NR 142</td>
<td>Environmental Management</td>
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<td>NR 208</td>
<td>Dendrology</td>
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<tr>
<td>or BIO 162</td>
<td>Introduction to Organismal Form and Function</td>
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<td>NR 215</td>
<td>Land and Resource Measurements</td>
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<td>NR/LA 218</td>
<td>Introduction to Geographic Information Systems (GIS)</td>
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<td>NR 306</td>
<td>Natural Resource Ecology and Habitat Management</td>
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<td>NR 314</td>
<td>Environmental Life-Cycle Analysis</td>
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<td>NR 320</td>
<td>Watershed Processes and Management</td>
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<tr>
<td>or NR 402</td>
<td>Forest Health</td>
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<tr>
<td>or ERSC 303</td>
<td>Soil Erosion and Water Conservation</td>
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<td>NR 323</td>
<td>Human Dimensions in Natural Resources Management (D5)</td>
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<tr>
<td>or NR 324</td>
<td>Social Dimensions of Sustainable Food and Fiber Systems</td>
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<td>or NR 328</td>
<td>Environmental Leadership and Community Engagement</td>
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<td>NR 326</td>
<td>Natural Resources Economics and Valuation</td>
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<td>NR 335</td>
<td>Conflict Management in Natural Resources</td>
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<td>NR 363</td>
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<td>NR/CRP 404</td>
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<td>or NR/CRP 408</td>
<td>Water Resource Law and Policy</td>
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<td>NR 416</td>
<td>Environmental Impact Analysis and Management</td>
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<td>NR 425</td>
<td>Applied Resource Analysis and Assessment</td>
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<td>NR 435</td>
<td>Environmental Policy Analysis</td>
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<tr>
<td>NR 465</td>
<td>Senior Project - Ecosystem Management</td>
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<tr>
<td>BIO 161</td>
<td>Introduction to Cell and Molecular Biology (B2 &amp; B4)</td>
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<td>BRAE 237</td>
<td>Introduction to Engineering Surveying Engineering Surveying</td>
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<td>Aerial Photogrammetry and Remote Sensing</td>
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<td>or BRAE 345</td>
<td>Energy for a Sustainable Society (B7)</td>
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<td>BRAE 348</td>
<td>Introduction to Air Pollution</td>
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<td>CHEM 127</td>
<td>General Chemistry for Agriculture and Life Science I (B3)</td>
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<td>Calculus for the Life Sciences I (B1)</td>
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<td>Calculus for Business and Economics</td>
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<td>College Physics I</td>
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<td>Introductory Soil Science</td>
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<td>STAT 217</td>
<td>Introduction to Statistical Concepts and Methods (B1)</td>
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<tr>
<td>or STAT 218</td>
<td>Applied Statistics for the Life Sciences</td>
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<tr>
<td>Concentration (41 units) or Approved Electives (29 units) in combination with Free Electives</td>
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</table>

GENERAL EDUCATION (GE)
(See GE program requirements below.) | 48 |

FREE ELECTIVES
Free Electives 0-13

Total units 180-181

1 Students in the Wildlife Biology concentration need to take BIO 161 and BIO 162 to meet prerequisites for courses in the concentration.

2 Students in the Watershed Management and Hydrology concentration need to take NR 320 to meet prerequisites for courses in the concentration.

3 Required in Major; also satisfies GE.

4 Students in the Watershed Management and Hydrology concentration need to take MATH 161 to meet prerequisites for courses in the concentration.

5 Unless a concentration is declared, the default will be a combination of Approved Electives and Free Electives.

6 Students who do not declare a concentration are encouraged to use Approved Electives and Free Electives to earn one or more minors. See the below Approved Electives Guide for recommended minors.

7 If a course is taken to meet a major requirement, it cannot double-count in the concentration or as an approved elective.

Concentrations

• Watershed Management and Hydrology (http://catalog.calpoly.edu/collegesandprograms/collegeofagriculturefoodenvironmentalsciences/naturalresourcesmanagementenvironmentalsciences/bsenvironmentalmanagementandprotection/watershedmanagementandhydrologyconcentration)

• Wildlife Biology (http://catalog.calpoly.edu/collegesandprograms/collegeofagriculturefoodenvironmentalsciences/naturalresourcesmanagementenvironmentalsciences/bsenvironmentalmanagementandprotection/wildlifebiologyconcentration)

Approved Electives Guide

Approved electives are courses that support the below career areas. Refer to number(s) next to each course to identify which courses align with each of the career areas. Consultation with an advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.

1. Climate Change Science
2. Environmental Mitigation Strategies
3. Environmental Policy and Management
4. Environmental Soil Science
5. Forest and Environmental Practices
6. Geology
7. Geospatial Technology
8. Sustainable Agriculture
9. Urban Forestry

Additionally, a student may earn one or more of the following minors through the appropriate selection of approved electives in combination with free electives (refer to advising materials for the minor):

• Anthropology and Geography
• Biology
• Geographic Information Systems for Agriculture

• Geology
• Indigenous Studies in Natural Resources and the Environment
• Sustainable Environments
• Water Science

Approved Electives

Select from the following:

At least 6 units must be upper division (300-400 level). Additional units of upper division coursework may be needed depending on coursework taken in the major.

Courses used to meet a degree requirement cannot double count as an elective.

AEPS 123 Landscape Installation and Maintenance 5, 9
AEPS 124 Plant Propagation 5, 9
AEPS 203 Organic Enterprise Project 8
AEPS 230 Environmental Horticulture 8, 9
AEPS 233 Plant Materials I 5, 9
AEPS 234 Plant Materials II 5, 9
AEPS 244 Precision Farming 7, 8
AEPS 313 Agricultural Entomology 8
AEPS/AG 315 Principles of Organic Crop Production 8
AEPS 321 Weed Biology and Management 5, 8
AEPS 323 Plant Pathology 8
AEPS 327 Vertebrate Pest Management 5
AEPS 350 Abiotic Plant Problems 9
AEPS 381 Native Plants for California Landscapes 5, 9
AEPS 420 Organic Crop Production Systems 8
AEPS 425 Arboriculture 5, 9
AEPS 431 Insect Pest Management 8
AEPS 441 Biological Control for Pest Management 8
AEPS 445 Cropping Systems 8
AEPS 450 Current Issues in the Strawberry Industry 8
AG 339 Internship in Agriculture 8
AG/EDES/ENGR/ISLA/SCM/UNIV 350 The Global Environment 8
AG 360 Holistic Management 5, 8
AGB 212 Agricultural Economics 8
AGB 312 Agricultural Policy 8
AGB 369 Agricultural Personnel Management 8
ANT 201 Cultural Anthropology 1
or ANT 202 World Prehistory
or GEOG 150 Human Geography
ANT 250 Biological Anthropology 1
ASCI 112 Principles of Animal Science 8
ASCI 221 Introduction to Beef Production 8
ASCI 223 Systems of Small Ruminant Management 8
ASCI 239 Principles of Rangeland Management 1, 2, 3, 8
<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>ASCI 311</td>
<td>Advanced Beef Cattle System Management</td>
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<tr>
<td>ASCI 370</td>
<td>Rangeland Improvements</td>
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<td>ASCI 465</td>
<td>Applied Practices for Monitoring California Rangelands</td>
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<tr>
<td>BIO 329</td>
<td>Vertebrate Field Zoology</td>
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<td>BIO 400</td>
<td>Special Problems for Advanced Undergraduates</td>
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<td>BIO 427</td>
<td>Wildlife Management</td>
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<tr>
<td>BIO 435</td>
<td>Plant Physiology</td>
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<td>General Botany</td>
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<td>BRAE 141</td>
<td>Agricultural Machinery Safety</td>
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<tr>
<td>BRAE 142</td>
<td>Agricultural Power and Machinery Management</td>
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<tr>
<td>BRAE 150</td>
<td>Design Graphics and CAD for Agricultural Engineering</td>
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<td>BRAE 239</td>
<td>Engineering Surveying</td>
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<td>BRAE 333</td>
<td>Aquacultural Engineering</td>
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<tr>
<td>BRAE 340</td>
<td>Irrigation Water Management</td>
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<td>BRAE 345</td>
<td>Aerial Photogrammetry and Remote Sensing</td>
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<td>Energy for a Sustainable Society</td>
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<td>BRAE 349</td>
<td>Water for a Sustainable Society</td>
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<td>BRAE 447</td>
<td>Advanced Surveying with GIS Applications</td>
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<td>CE 112</td>
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<td>Computer Aided Drafting in Civil Engineering</td>
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<td>CRP 212</td>
<td>Introduction to Urban Planning</td>
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<td>CRP 336</td>
<td>Introduction to Environmental Planning</td>
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<td>Fundamentals of Computer Science</td>
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<td>ERSC 223</td>
<td>Rocks and Minerals</td>
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<td>Physical Geography</td>
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<td>ERSC 303</td>
<td>Soil Erosion and Water Conservation</td>
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<td>ERSC 323</td>
<td>Geomorphology</td>
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<td>ERSC/GEOG 325</td>
<td>Climate and Humanity</td>
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<tr>
<td>ERSC/GEOG 414</td>
<td>Global and Regional Climatology</td>
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<td>ERSC/GEOG 415</td>
<td>Applied Meteorology and Climatology</td>
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<td>ERSC 442</td>
<td>Applied Environmental Groundwater Hydrology</td>
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<td>ERSC 443</td>
<td>Applied Environmental Contaminant Transport</td>
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<td>ES 241</td>
<td>Survey of Indigenous Studies</td>
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<td>GEOG 308</td>
<td>Global Geography</td>
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<td>GEOG 328</td>
<td>Applications in Remote Sensing</td>
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<td>GEOL 206</td>
<td>Geologic Excursions</td>
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<td>GEOL 241</td>
<td>Physical Geology Laboratory</td>
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<td>GEOL 305</td>
<td>Seismology and Earth Structure</td>
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<td>GEOL 309</td>
<td>Igneous Petrology</td>
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<td>GEOL 311</td>
<td>Metamorphic Petrology</td>
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<td>GEOL 330</td>
<td>Principles of Stratigraphy</td>
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<td>GEOL 415</td>
<td>Structural Geology</td>
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<td>GEOL 420</td>
<td>Applied Geophysics</td>
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<td>GEOL/ERSC 401</td>
<td>Field-Geology Methods</td>
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<td>GEOL/ERSC 402</td>
<td>Geologic Mapping</td>
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<td>JOUR 203</td>
<td>News Reporting and Writing</td>
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<td>JOUR 205</td>
<td>Agricultural Communications</td>
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<td>MATH 142</td>
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<td>Wildland Fire Control</td>
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<td>NR/ES 308</td>
<td>Fire and Society</td>
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<td>NR 312</td>
<td>Technology of Wildland Fire Management</td>
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<td>Internship in Forest and Natural Resources</td>
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<td>NR 340</td>
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<td>NR 350</td>
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<td>NR 355</td>
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<td>Ethnicity and the Land</td>
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<td>Watershed Assessment and Protection</td>
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<td>NR/BIO/SS 421</td>
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<td>NR 422</td>
<td>Stream Measurements and Water Quality Monitoring</td>
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<td>NR 434</td>
<td>Wood Properties, Products and Sustainable Uses</td>
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<td>NR 455</td>
<td>Wildland-Urban Fire Protection</td>
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<td>PHIL 340</td>
<td>Environmental Ethics</td>
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<td>PHYS 122 or PHYS 132</td>
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<td>American and California Government</td>
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<td>POLS 344</td>
<td>Civil Liberties</td>
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<td>RPTA 112</td>
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<td>RPTA 210</td>
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<td>RPTA 302</td>
<td>Environmental and Wilderness Education</td>
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<td>RPTA 255</td>
<td>Leadership and Diverse Groups</td>
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<td>RPTA 302</td>
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<td>RPTA 313</td>
<td>Sustainability in the Experience Industry</td>
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<td>WVIT 331</td>
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<td>Advanced Viticulture - Winter</td>
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<td>WVIT 428</td>
<td>Winegrape Vineyard Management</td>
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Any upper division AEPS, AG, ANT, BIO, BOT, BRAE, CHEM, CM, COMS, CRP, EDES, ERSC, GEOG, JOUR, LA, MCRO, MSCI, NR, PHIL, PHYS, PSY, SS, STAT, or UNIV courses

### General Education (GE) Requirements

- 72 units required, 24 of which are specified in Major and/or Support.
- See the complete GE course listing (http://catalog.calpoly.edu/generalrequirementsbachelorsdegree/#generaleducationtext).
- Minimum of 12 units required at the 300 level.

#### Area A: Communication

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<td>A1</td>
<td>Expository Writing</td>
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<tr>
<td>A2</td>
<td>Oral Communication</td>
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<tr>
<td>A3</td>
<td>Reasoning, Argumentation and Writing</td>
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#### Area B: Math, Science, and Quantitative Reasoning

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<th>Math, Science, and Quantitative Reasoning</th>
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<tbody>
<tr>
<td>B1</td>
<td>Mathematics/Statistics (8 units in Major)</td>
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<tr>
<td>B2</td>
<td>Life Science (4 units in Major)</td>
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<tr>
<td>B3</td>
<td>Physical Science (4 units in Major)</td>
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<td>B4</td>
<td>One lab taken with either a B2 or B3 course</td>
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<td>B7</td>
<td>Upper-division elective (4 units in Major)</td>
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#### Area C: Arts and Humanities

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<tr>
<td>C1</td>
<td>Literature</td>
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<td>C2</td>
<td>Philosophy</td>
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<td>C3</td>
<td>Fine/Performing Arts</td>
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<td>C4</td>
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#### Area D: Society and the Individual

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<th>Society and the Individual</th>
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<tbody>
<tr>
<td>D1</td>
<td>The American Experience (Title 5, Section 40404 requirement)</td>
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<td>D2</td>
<td>Political Economy</td>
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<tr>
<td>D3</td>
<td>Comparative Social Institutions</td>
</tr>
<tr>
<td>D5</td>
<td>Upper-division elective (4 units in Major)</td>
</tr>
</tbody>
</table>

#### Area E: Lifelong Learning and Self-Development

<table>
<thead>
<tr>
<th>Area E</th>
<th>Lifelong Learning and Self-Development</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Lower-division elective</td>
</tr>
</tbody>
</table>

Total units: 48

1 Required in Major; also satisfies GE.