SCIENCE CONCENTRATION

Students must take at least one course at the 300-400 level in the concentration; three courses in the same discipline are recommended.

Chemistry Requirement
Select from the following: 4-5
- CHEM 111 Survey of Chemistry
- CHEM 124 General Chemistry for Physical Science and Engineering I
- CHEM 127 General Chemistry for Agriculture and Life Science I

Physics Requirement
Select from the following: 4
- PHYS 107 Introduction to Meteorology
- PHYS 111 Contemporary Physics for Nonscientists
- PHYS 121 College Physics I
- PHYS 141 General Physics IA
- PSC 320 Energy, Society and the Environment

Approved Concentration Electives
Select from the following: 11-12
- ASTR 102 Introduction to Stars and Galaxies
- ASTR 324 Longitude, Navigation, and Timekeeping
- BIO 114 Plant Diversity and Ecology
- BIO/CHEM 202 Orientation to Biotechnology
- BIO 231 Human Anatomy and Physiology I
- BIO 232 Human Anatomy and Physiology II
- BIO 302 Human Genetics
- BIO 305 Biology of Cancer
- BIO/CHEM 308 Genetic Engineering Technology
- BOT 311 Plants, People and Civilization
- BOT 326 Plant Ecology
- CHEM 125 General Chemistry for Physical Science and Engineering II
- CHEM 126 General Chemistry for Physical Science and Engineering III
- CHEM 128 General Chemistry for Agriculture and Life Science II
- CHEM 129 General Chemistry for Agriculture and Life Science III
- CHEM 312 Survey of Organic Chemistry
- CHEM 313 Survey of Biochemistry and Biotechnology
- CHEM 349 Chemical and Biological Warfare
- CHEM 377 Chemistry of Drugs and Poisons
- CHEM 466 Learning Assistant Seminar
- ERSC 223 Rocks and Minerals
- GEOL 102 Introduction to Geology
- GEOL 203 Fossils and the History of Life
- GEOL 205 Earthquakes
- GEOL 206 Geologic Excursions

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>LS 305</td>
<td>Project Based Learning in STEM Education 2</td>
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<tr>
<td>MCRO 221</td>
<td>Microbiology</td>
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<td>MSCI 307</td>
<td>World Aquaculture: Applications, Methodologies and Trends</td>
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<td>MSCI 330</td>
<td>Technologies for Ocean Discovery</td>
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<td>MSCI 440</td>
<td>Communicating Ocean Sciences to Informal Audiences</td>
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<td>NR 306</td>
<td>Natural Resource Ecology and Habitat Management</td>
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<td>PHYS 122</td>
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<td>PHYS 123</td>
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<td>PHYS 132</td>
<td>General Physics II</td>
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<td>PHYS 133</td>
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<td>SCM 302</td>
<td>The Learn By Doing Lab Teaching</td>
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<td>ENGR 322</td>
<td>Practicum</td>
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<tr>
<td>SCM 360</td>
<td>Selected Environmental Issues of California's Central Coast</td>
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Total units: 20

1. A maximum of 4 units total from CHEM 466 and SCM 302 may be used in the concentration.
2. A maximum of 4 units total of LS 305 may be used in the concentration.