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
- GEO 102 Introduction to Geology
- GEO 203 Fossils and the History of Life
- GEO 205 Earthquakes
- GEO 206 Geologic Excursions
- LS 305 Project Based Learning in STEM Education
- MCO 221 Microbiology
- MSCI 330 Technologies for Ocean Discovery
- MSCI 440 Communicating Ocean Sciences to Informal Audiences
- NR 306 Natural Resource Ecology and Habitat Management
- PHYS 122 College Physics II
- PHYS 123 College Physics III
- PHYS 132 General Physics II
- PHYS 133 General Physics III
- PHYS 330 Teaching Physics
- PSC 201 Physical Oceanography
- SCM 302/ENGR 322 The Learn By Doing Lab Teaching Practicum
- SCM 360 Selected Environmental Issues of California’s Central Coast

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.