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
- ENGR 322  The Learn By Doing Lab Teaching Practicum
- 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
- LS 305  Project Based Learning in STEM Education
- 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  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.