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:  
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:  
PHYS 107 Introduction to Meteorology  
PHYS 111 Contemporary Physics for Nonscientists  
PHYS 121 College Physics I  
PHYS 141 General Physics I A  
PSC 320 Energy, Society and the Environment

Approved Concentration Electives
Select from the following:  
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

| LS 305 | Project Based Learning in STEM Education  
| MCRO 221 | Microbiology  
| MSCI 307 | World Aquaculture: Applications, Methodologies and Trends  
| 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.