

EARTH SCIENCE ASSOCIATE OF SCIENCE

Earth Science is a broad field offering countless personal and professional opportunities to work on practical and important problems in society. Job opportunities related to the earth and our environment will always be plentiful. Obtain the associate degree and build your knowledge base and your resume for finding your next local job. Or, plan to transfer to a four-year institution and study geologic hazards, planetary exploration, the environment, resource management, bioremediation, or any number of other related subfields. As with all programs, students who intend to transfer to a four-year institution should research the transfer institution's requirements and plan to complete with the CSU GE Breadth pattern or IGETC GE pattern.

Required Courses - Major:		Units
CHM 250	General Chemistry I	5
GEL 201	Geology	3
GEL 201L	Geology Laboratory	1
MTH 210	Calculus and Analytic Geometry I	5
OR		
MTH 230	Calculus for Business and Economics	3
MTH 220	Statistics	4
Plus 12 additional units selected from the following:		Units
AGR 108	Soils and Fertility Management	3
BIO 242	Introduction to Oceanography	3
CHM 251	General Chemistry II	5
EAS 208	Environmental Geology	4
EAS 210	Geology of California	4
EAS 211	Weather and Climate	3
EAS 212	Introduction to Geographic Information Systems	3
EAS 222	Applied GIS	3
GEL 100	Earthquake Country	2
GEL 203	Earth History	3
GEL 203L	Earth History Laboratory	1
GEO 206	Physical Geography	4
MTH 211	Calculus and Analytic Geometry II	5
NRS 115	The Coastal Redwoods	3
NRS 200	Environmental Science	3
NRS 200L	Environmental Science Laboratory	1
PHY 210	General Physics I	4
PHY 211	General Physics II	4
PHY 220	Physics for Scientists and Engineers I	4
PHY 221	Physics for Scientists and Engineers II	4
PHY 222	Physics for Scientists and Engineers III	4
Total Major Units		28 - 30
Total Degree Units		60

Program Level Student Learning Outcomes:

1. Demonstrate a working knowledge of differential calculus.
2. Demonstrate a working knowledge of statistics.
3. Demonstrate a working knowledge of physical chemistry.
4. Demonstrate a working knowledge of the basic concepts and applications in geology and related physical science fields where the use of calculus, statistics and chemistry can be critical.