

Specific Area Endorsement Requirements

EARTH SCIENCE

Earth Science Endorsement Requirements: To be licensed to teach secondary school Earth Science, the candidate must satisfactorily complete requirements for a baccalaureate degree to include the following **Earth Science Courses** and **Support Courses** or their **approved** equivalents. Grade requirements for teacher licensure are different than grade requirements for the major. Teacher licensure candidates must receive grades of "C-" or higher in the coursework listed below. *(revised 2/22/11)*

Earth Science Courses		
Course	Course Title	Credits
GEOL 110	Physical Geology	3
GEOL 110L	Physical Geology Lab	1
GEOL 167	History/Philosophy of the Geosciences	3
Choose one:	GEOL 211 Introduction to Oceanography GEOL 410 Oceanography for Teachers	3
GEOL 230	Evolution of Earth	4
GEOL 291	Geowriting and Communication	1
GEOL 320	Meteorology	3
GEOL 367	Genesis of Solid Earth Materials	4
GEOL 377	Earth Surface Processes	3
GEOL 467	Stratigraphy, Structure, & Tectonics	4
GEOL 477	Contemporary Issues in the Geosciences	3
Choose one:	ASTR 220 General Astronomy I GEOL 272 Planetary Geology	3
Choose one:	GEOL 491 Geological Literature Research GEOL 494 Internship in Geology GEOL 497 Problems in Geology GEOL 499 Honors in Geology	2-6
Total Minimum Earth Science Credits		37-41
Support Courses		
BIO, CHEM, and PHYS – Choose at least <u>ONE</u> course from <u>each</u> area	Choose from: BIO - BIO 114 Organisms (4 credits) BIO 350 Paleobiology (4 credits) CHEM - CHEM 131-131L General Chemistry I (4 credits) CHEM 132-132L General Chemistry II (4 credits) PHYS- PHYS 140-140L College Physics I (4 credits) PHYS 150-150L College Physics II <u>or</u> GEOL 440 Geophysics (3-4 credits)	16
MATH	to include at least <u>one</u> Calculus course (MATH 205, MATH 232, or MATH 235)	6
Total Minimum Support Credits		22
Total Minimum Endorsement Credits		59-63