

SCIENCE: EARTH-SPACE

(Required if program completed after August 2013)

*2.5 GPA, C or better grade in each course

Science Core: 16 cr

BIOL L111 Intro to Biology: Evolution & Diversity	3
BIOL L112 Intro to Biology: Biological Mechanisms	3
CHEM C117 Principles of Chem & Biochem I	5
*GEOG G304 Physical Meteorology & Climatology	3
PHYS P201 Physics I (P: Math M026)	5
OR P221 Physics I (P: MATH M211)	

OR Praxis II Middle School Science test 10439 score 137

*required, some courses may be prerequisite for other courses

EARTH-SPACE SCIENCE major 31 cr

Complete 6 cr from the following:

AST A100 The Solar System	(3 cr)
AST A102 Gravity, the Great Attractor: Evolution of Planets, Stars & Galaxies	(3 cr)
AST A103 The Search for Life in the Universe	(3 cr)
AST A105 Stars & Galaxies	(3 cr)
AST A115 Birth & Death of the Universe	(3 cr)

Complete 3 credits from the following:

GEOL G103 Earth Science Materials & Processes	(3 cr)
GEOL G104 Evolution of the Earth	(3 cr)
GEOL G105 Earth: Our Habitable Planet	(3 cr)
GEOL G111 Physical Geology	(3 cr)
GEOL G114 Dinosaurs & Their Relatives	(3 cr)
GEOL G116 Our Planet and Its Future	(3 cr)
GEOL G121 Meteorites & Geology I: Processes	(3 cr)
GEOL G131 Oceans & Our Global Environment	(3 cr)
GEOL G141 Earthquakes & Volcanoes	(3 cr)
GEOL G171 Environmental Geology	(3 cr)

Complete the following (8cr):

GEOL G221 Introduction to Mineralogy	(4 cr) and
GEOL G222 Introduction to Petrology, P: G221	(4 cr)

Complete 3 credits from:

GEOL G300 Environmental and Urban Geology	(3 cr)
GEOL G302 Dev. of the Global Environment	(3cr)
GEOL G323 Structural Geology	(3cr)
GEOL G334 Principles of Sedimentology and Stratigraphy P: GEOL G222	(3cr)

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Complete 3 credits from:

GEOL G404 Geobiology	(3 cr)
GEOL G411 Invertebrate Paleontology	(3 cr)
GEOL G415 Geomorphology, P: GEOL G222,	3 cr
GEOL G417 Optical Mineralogy (P: G222)	3cr
GEOL G418 Igneous and Metamorphic Petrology P:G222	(3 cr)
GEOL G424 Geological Applications of GIS	(3 cr)
GEOL G427 X-ray Mineralogy	(3 cr)
GEOL G444 Methods in Analytical Geochemistry	1-2cr
GEOL G454 Fundamentals of Plate Tectonics P: G323, G334	(3 cr)

Complete at least 8 additional credits of Geology at the 300 or 400 level:

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Not yet formally approved as license additions for REPA Licensing Rules, the following approved additions for Rules 2002 may form study guidelines for additions by Praxis II testing

LIFE SCIENCE BIOLOGY 12 cr

BIOL L113 Biology Lab	3
BIOL L211 Molecular Biology (P: L112)	3
BIOL L311 Genetics (P: L211)	3
BIOL L318 Evolution (P: L311)	3

CHEMISTRY 14cr

Required Courses	
CHEM C341 Organic Chemistry I	3
CHEM C342 Organic Chemistry II	3
CHEM N330 Intermediate Inorganic (P: C117, C342 or R340)	5
CHEM C360 Introduction to Physical Chemistry (P: C117, Math M119, PHYS P201, R: N330)	3

PHYSICS 13 cr

PHYS P202/P222 Physics II	5
PHYS P301 Physics III or PHYS P300 General Physics III	3
PHYS P309 Modern Physics Lab	2
PHYS P310 Environmental Physics (P: physics II)	3