



**Requirements for the Geology Major,
 Secondary Education Track as of 2011**

Term Grade • Geology Courses

_____ _____ One of the following:
 _____ _____ GEOL 100/110—Physical Geology and Laboratory
 _____ _____ GEOL 120/110—Environmental Geology and Lab
 _____ _____ GEOL 102—Historical Geology
 _____ _____ GEOL 322—Mineralogy
 _____ _____ GEOL 340—Geomorphology
 _____ _____ GEOL 341—Structural Geology
 _____ _____ GEOL 393—Senior Thesis I: Proposal
 _____ _____ GEOL 394— Senior Thesis II: Research
 _____ _____ GEOL 443—Petrology
 _____ _____ GEOL 490—Field Camp

_____ _____ Plus three courses selected from:
 _____ _____ GEOL 212—Planetary Geology
 _____ _____ GEOL 342—Stratigraphy and Sedimentation
 _____ _____ AOSC/GEOL 375— Introduction to the Blue Oceans
 _____ _____ GEOL 444—Low-Temperature Geochemistry
 _____ _____ GEOL 445—High-Temperature Geochemistry
 _____ _____ GEOL 451—Groundwater

• Supporting Courses

_____ _____ One of the following
 _____ _____ ASTR 100 --- Introduction to Astronomy
 _____ _____ ASTR 101 --- General Astronomy
 _____ _____ AOSC 200--Weather and Climate

_____ _____ One of the following
 _____ _____ CHEM 131—General Chemistry I and CHEM132---General
 _____ _____ Chemistry I Laboratory
 _____ _____ CHEM 135—General Chemistry for Engineers and CHEM 136—
 _____ _____ General Chemistry for Engineers Laboratory

_____ _____ MATH 140—Calculus I
 _____ _____ MATH 141—Calculus II

_____ _____ One of the following
 _____ _____ PHYS 141—General Physics
 _____ _____ PHYS161—General Physics: Mechanics and Particle Dynamics,
 _____ _____ and PHYS174 –Physics Laboratory Introduction
 _____ _____ PHYS171—Introductory Physics: Mechanics and Relativity and

PHYS174 - Physics Laboratory Introduction

• Education Courses

Six credits selected from among the following:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

- EDPL 210—Historical and Philosophical Perspective on Education
- EDPL 301—Foundations of Education
- EDHD 413—Adolescent Development
- EDHD 426—Cognitive and Motivational Basis of Reading I
- EDCI 463—Teaching Reading in Content Area II

• Recommended

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_____	_____
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_____	_____

- BSCI 105—Principles of Biology I
- BSCI 106—Principles of Biology II
- One of the following
 - PHIL 250—Philosophy of Science
 - HIST 174—History of Science
- PHYS 142—General Physics II
- The remaining 6 credits of the Education courses listed above