

# Curriculum in Geology

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## Freshman

Fall	Hours	Spring	Hours
CHEM 1030 Fundamentals Chemistry I	3	CHEM 1040 Fundamental Chemistry II	3
CHEM 1031 Fundamental Chemistry I Laboratory	1	CHEM 1041 Fundamental Chemistry II Laboratory	1
Core History I	3	Core History II	3
ENGL 1100 English Composition I	3	ENGL 1120 English Composition II	3
<b>GEOL 1100 Dynamic Earth</b>	<b>4</b>	<b>GEOL 1110 Earth and Life Through Time</b>	<b>4</b>
		14	14

## Sophomore

Fall	Hours	Spring	Hours
BIOL 1020 Principles of Biology	3	BIOL 1030 Organismal Biology	3
BIOL 1021 Principles of Biology Laboratory	1	BIOL 1031 Organismal Biology Laboratory	1
MATH 1610 Calculus I	4	MATH 1620 Calculus II	4
<b>GEOL 2000 Professional Development</b>	<b>1</b>	<b>GEOL 2050 Igneous and Metamorphic Petrology</b>	<b>4</b>
<b>GEOL 2010 Mineralogy and Optical Crystallography</b>	<b>5</b>	Elective	4
		14	16

## Junior

Fall	Hours	Spring	Hours	Summer	Hours
PHYS 1500 General Physics I	4	PHYS 1510 General Physics II	4	<b>GEOL 3650 Field Camp</b>	<b>6</b>
Core Fine Arts	3	Core Social Science <sup>2</sup>	3		
Technical Elective <sup>1</sup>	3	<b>GEOL 3400 Structural Geology</b>	<b>4</b>		
<b>GEOL 3200 Introduction to Paleobiology</b>	<b>3</b>	GEOL Elective <sup>1</sup>	3		
GEOL Elective <sup>1</sup>	3				
		16	14		6

## Senior

Fall	Hours	Spring	Hours
GEOG 5830 Geographic Information Systems	4	Core Social Science II	3
<b>GEOL 4010 Sedimentary Petrology</b>	<b>3</b>	<b>GEOL 4110 Stratigraphy</b>	<b>3</b>
<b>GEOL Elective<sup>1</sup></b>	<b>3</b>	<b>GEOL 4740 Senior Seminar</b>	<b>2</b>
Core Humanities	3	<b>GEOL Elective<sup>1</sup></b>	<b>3</b>
Core literature I	3	Core Literature II	3

UNIV 4AA0 University Graduation<sup>2</sup> 0

16

14

Total Hours: 124

Courses in BOLD will be used to calculate GPA in major.

Options for courses labeled CORE are in the Auburn University Bulletin ([www.auburn.edu/bulletin](http://www.auburn.edu/bulletin)) under Core Curriculum.

<sup>1</sup> **Geology Electives:** 12 hours required. Geology electives may be selected from the following groups of courses with NO MORE THAN 4 hours coming from group B.

**GEOL Group A Electives:**

GEOL 4210 (3) Economic Geology

GEOL 4260 (3) Geochemistry

GEOL 5060 (4) Invertebrate Paleontology

GEOL 5100 (3) Hydrogeology

GEOL 5300 (3) Basin Analysis

GEOL 5600 (4) Applied Geophysics

GEOG 5220 (3) Geomorphology

**GEOL Group B Electives:**

GEOL 3060 (3) Lunar and Planetary Geology

GEOL 4930 Actualistic Paleontology

GEOL 4930 Ichnology

GEOL 4930 (1) Carbonate Depositional Systems

GEOL 4930 Unspecified Directed Study (no more than 2 hours)

GEOL 4980 Unspecified Research Methods (no more than 2 hours)

**Technical Electives:** The following courses are approved. Other courses may be permitted with prior approval of the GEOL advisor. Students must meet with their Geology advisor and have technical electives approved in advance. An approval form must be on file in the Dean's office in order to be cleared for graduation.

AERO 3040, 5320

AGRN 3040, 3100,5000,5080,5150,5300

ANTH any 2000+ course

BIOL 2425,3030, 3060,3075,3200,4010,4020

C\TL2010, 3210, 3310, 3120,4210, 4310, 5330, 5340

CHEM 2070, 3050, 3200, any 3000-5000 course

COMP 2200, 2210, any 2000-3000 course

GEOG any 3000-5000 course

MATH any 2000-5000 course

MECH any 3000-5000 course

PHYS any 2000-5000 course

STAT any 2000-5000 course

<sup>2</sup> GEOG 1010 Global Geography is suggested for majors.