

Geology (GEOL)

Freshman

Fall	Hours	Spring	Hours
ENGL 1100 English Composition I	3	ENGL 1120 English Composition II	3
GEOL 1100 Dynamic Earth	4	GEOL 1110 Earth and Life Through Time	4
Core Science ¹	4	Core Science ¹	4
Core History I	3	Core History II	3
	14		14

Sophomore

Fall	Hours	Spring	Hours
GEOL 3550 Field Geology: Methods and Application	3	Core Science ¹	4
GEOL 2010 Mineralogy and Optical Crystallography	5	GEOL 2050 Igneous and Metamorphic Petrology	4
MATH 1610 Calculus I	4	Free Elective	3
GEOL 2000 Professional Development	1	Math Requisite²	3-4
Core Social Science	3		
	16		14-15

Junior

Fall	Hours	Spring	Hours	Summer	Hours
Core Science ¹	4	Technical Elective	3	GEOL 3650 Advanced Field Geology	3
GEOL 3200 Introduction to Paleobiology	3	GEOL 3400 Structural Geology	4		
GEOL Elective⁴	6	Core Social Science ³	3		
Free Elective	3	GEOL Elective⁴	3		
		Core Fine Arts ³	3		
	16		16		3

Senior

Fall	Hours	Spring	Hours
GEOL 4010 Sedimentary Petrology	3	GEOL 4110 Stratigraphy	3
GEOL Elective⁴	3	GEOL Elective⁴	6
GEOG 5830 Geographic Information Systems	4	Core Humanities	3
GEOL 4740 Senior Seminar	2	Core Literature II	3
Core literature I	3	UNIV 4AA0 Achieve the Creed	0
	15		15

Total Hours: 123-124

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

Options for courses labeled CORE are in the Auburn University Bulletin (<https://bulletin.auburn.edu/>) under Core Curriculum.

1 Take CHEM 1030/CHEM 1031, BIOL 1020/BIOL 1021, PHYS 1500, and 4th course can be either CHEM 1040/CHEM 1041, BIOL 1030/BIOL 1031, or PHYS 1510.

2 Math Requisite can be either MATH 1620 Calculus II (4), STAT 2510 (3), or STAT 3010 (3).

3 GEOG 1010 Global Geography is suggested for majors (as one of their Core Social Science requirements).

4 **Geology Electives:** 18 hours required. Geology electives may be selected from the following courses with NO MORE THAN 3 hours coming from the unspecified group (GEOL 4930 and GEOL 4980).

GEOL Electives:

GEOL 3060 Lunar and Planetary Geology (3)

GEOL 4210 Economic Geology (3)

GEOL 4260 Introduction to Geochemistry (3)

GEOL 5060 Introduction to Micropaleontology (3)

GEOL 5100 Hydrogeology (3)

GEOL 5220 Geomorphology (3) (also cross-listed as GEOG 5220 Geomorphology)

GEOL 5300 Basin Analysis (3)

GEOL 5440 Electron Microprobe Analysis (3)

GEOL 5500 Petroleum Geology (3)

GEOL 5600 Applied Geophysics (4)

GEOL 5700 Geohealth (3)

GEOL 5840 Climate Change and Society (3)

No more than 3 hours total can count towards your 18 hours of GEOL electives from the following:

GEOL 4930 Directed Studies in Undergraduate Research (1-3) (no more than 3 hours)

GEOL 4980 Undergraduate Research Methods (1-3) (no more than 3 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.

CSES 5000, CSES 5080, CSES 5150 ,CSES 5300

ANTH any 2000+ course

BIOL 1030/BIOL 1031, BIOL 2425, BIOL 3030, BIOL 3060, BIOL 3075, BIOL 3200, BIOL 4010, BIOL 4020

CIVL 2010, CIVL 3310, CIVL 4210, CIVL 4310, CIVL 5330, CIVL 5340

CHEM 1040/CHEM 1041, CHEM 1110/CHEM 1120, CHEM 1117/CHEM 1127, CHEM 2070, CHEM 3050, any 3000-5000 course

COMP 2210, any 2000-3000 course

GEOG any 3000-5000 course

MATH any 2000-5000 course

MECH any 3000-5000 course

PHYS 1510 or any 2000-5000 course

STAT any 2000-5000 course