

All students who declared their major during or after the Fall 2025 semester will follow these degree requirements.

Name: _____ CUNY ID: _____ Targeted Graduation: _____

Course Code	Course Name	Course Credits	Credits Required	Class Taken ?	Semester Taken	Grade ‡	Pre-reqs
Introductory Courses							
GEOL 101	Introduction to Planet Earth	4	4	<input type="checkbox"/>			
ENSCI 100	Our Planet in the 21st Century	4	4	<input type="checkbox"/>			
Supporting Science Courses							
MATH 141 <u>or</u> 151	Calculus/Differentiation <u>or</u> Calculus/Differentiation & Integration	3 <u>or</u> 4	3	<input type="checkbox"/>			MATH 141: MATH 122, or permission; MATH 151: A grade of B- or above in MATH 122 or dept permission
CHEM 113	General Chemistry I (113.4 & 113.1)	5	5	<input type="checkbox"/>			A grade of C or better in MATH 115 (or equivalent)
PHYS 121 <u>or</u> 145	General Physics I (121.4 & 121.1) <u>or</u> Principles of Physics I (145.4 & 145.1)	5	5	<input type="checkbox"/>			PHYS 121: Trigonometry & algebra; PHYS 145: MATH 142 or 151
Core Courses							
GEOL 102	History of Earth and Life	4	4	<input type="checkbox"/>			GEOL 101
GEOL 200	Methods in Geoscience	3	3	<input type="checkbox"/>			GEOL 101
GEOL 201*	Minerals and Crystals*	3	12 (i.e., take four [4] courses)	<input type="checkbox"/>			GEOL 101, CHEM 113; recommended: GEOL 102, 200
GEOL 203*	Igneous and Metamorphic Rocks*	3		<input type="checkbox"/>			GEOL 201; recommended: GEOL 102, 200
GEOL 208*	Sediments and Landscapes*	3		<input type="checkbox"/>			GEOL 101; recommended: GEOL 102, 200
GEOL 212W*	Sedimentary Rocks, Fossils, and Strata*	3		<input type="checkbox"/>			GEOL 102; recommended: GEOL 200, 201, 208
GEOL 214*	Faults, Folds, and Tectonics*	3		<input type="checkbox"/>			GEOL 200; recommended: GEOL 102, PHYS 121, MATH 141
GEOL 216	Dynamics of Oceans and Atmospheres	3		<input type="checkbox"/>			GEOL 101 or ENSCI 200, MATH 141; coreq: GEOL 102
Advanced and Elective Courses							
(Complete 6 credits worth of advanced/elective courses. Up to 3 credits of GEOL/ENSCI 383 may also count towards this requirement. In addition to 300-level courses, you may also choose to take <i>additional</i> GEOL 200-level courses to satisfy the advanced/elective requirement.)							
GEOL 318	Soils in the Environment	4	6 (i.e., take two [2] courses)	<input type="checkbox"/>			ENSCI 200 or permission
GEOL 328W	Volcanoes & Climate	3		<input type="checkbox"/>			GEOL 201 or GEOL 216 or permission
GEOL 330	Ice Ages and Paleoclimate	3		<input type="checkbox"/>			GEOL 101, ENSCI 100; recommended: GEOL 208, ENSCI 200
GEOL 333*	Geophysics*	3		<input type="checkbox"/>			GEOL 101, PHYS 121 or PHYS 145, MATH 141 or 151
GEOL 347*	Surface Water and Groundwater*	3		<input type="checkbox"/>			GEOL 200, CHEM 113, & PHYS 121
GEOL 361*†‡ (361.3 & 361.1)	GEOL 361.3: Geological Problem Solving I*†‡	3		<input type="checkbox"/>			GEOL 200 and at least two of GEOL 203, 208, 212W, & 214 or permission
	GEOL 361.1: Geological Problem Solving II*†‡	1		<input type="checkbox"/>			GEOL 361.3
GEOL 363*	GIS in Geoscience*	3		<input type="checkbox"/>			GEOL 101; recommended: GEOL 200
GEOL 365	Coastal Science and Management	3		<input type="checkbox"/>			GEOL 101 or ENSCI 200 or permission; recommended: one semester of BIOL and/or CHEM
GEOL 370	Biogeochemistry	3		<input type="checkbox"/>			ENSCI 200 or GEOL 101 & CHEM 113

ENSCI 200	Earth Systems Science	3		<input type="checkbox"/>			ENSCI 100, GEOL 101, CHEM 113, & PHYS 121
ENSCI 303	Environmental Microbiology	3		<input type="checkbox"/>			BIOL 105, GEOL 101, ENSCI 100, & ENSCI 200 or permission; recommended: CHEM 113
GEOL/ENSCI 383		3		<input type="checkbox"/>			

<i>Additional elective courses may be offered. Up to 3 credits of GEOL/ENSCI 383 may also count.</i>	By permission
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Your total credits towards major	
Total required credits for major	46

‡ Students must receive at least a C- grade for a class to count towards their major.

* This course is a recommended choice for students interested in obtaining the New York State Professional Geologist license.

† GEOL 361 is currently only offered every other academic year (e.g., AY 2024-2025, AY 2026-2027).

◇ GEOL 361 may be used as an elective for the GEOL BA. Students uncertain about career paths are advised to take GEOL 361.

CLASS FREQUENCY INFORMATION (the following are rough guidelines that are subject to change):

- Introductory and Supporting Science Courses are *typically* offered every semester
- GEOL 102 and 200 are *typically* offered every other semester in the Fall
- GEOL 216 is *typically* offered every other semester in the Spring
- GEOL 201, 203, 208, 212W, and 214 are *typically* offered on a 3-semester rotation
- GEOL 361 is currently only offered every other academic year.
- Advanced/Elective Courses do not have a set frequency

OTHER NOTES:

- ***The Geology BS in SEES is the only degree program in CUNY (and the greater NYC area) that satisfies the New York State Professional Geologist licensure requirements.***
- It is strongly recommended that students take courses in the "Supporting Sciences" category as early as possible in the major.
- ***Advanced elective courses may be substituted for additional 200-level core courses. GEOL 361 may be used as an elective for the GEOL BA.***
- Two semesters of Chemistry and calculus-based Physics (145 and 146) are recommended for students applying to graduate school.