

GEOL BS and BA DEGREE REQUIREMENTS (Original)

BS requirements highlighted in green

BA requirements highlighted in yellow

Course code	Course name	Credits	Credits required for BS	Credits required for BA	Pre-reqs/Co-reqs
Introductory course					
GEOL 101	Physical Geology	4	4	4	–
ENSCI 100	Our Planet in the 21st Century	4	4	4	–
Supporting courses					
MATH 151	Calculus I	4	4	3*	–
MATH 152	Calculus II	4	4	n/a	MATH 151
CHEM 113	General Chemistry I (1134 + 1131)	5	5	5	–
CHEM 114	General Chemistry II (1144 + 1141)	5	5	n/a	CHEM 113
PHYS 121/145	Physics I (1214 + 1211 or 1454 + 1451)	5	5	5	–
PHYS 122/146	Physics II (1224 + 1221 or 1464 + 1461)	5	5	n/a	PHYS 121/145
Core courses					
GEOL 102	Historical Geology	4	4	4	GEOL 101
GEOL 200	Methods in Geoscience	3	3	3	GEOL 101
GEOL 201	Minerals, Igneous and Metamorphic Rocks	4	4	4	GEOL 101, 102, 200
GEOL 208	Sedimentology and Landscape Evolution	4	4	4	GEOL 101, 102
GEOL 214	Earth's Internal Processes	3	3	3	GEOL 101, 102
GEOL 216	Dynamics of the Oceans and Atmospheres	3	n/a	3	GEOL 101 or ENSCI 200, MATH 141, GEOL 102
Advanced and elective courses**					
GEOL 361	Geology in the Field	3	3	6	GEOL 201, 208, 214 or permission
GEOL 313W	Stratigraphy and Paleoenvironments	3	9		GEOL 101, 102, 208
GEOL 328W	Volcanoes and Climate	3			GEOL 201 or 216 or permission
GEOL 347	Principles of Hydrology	3			GEOL 101, CHEM 1134 + 1131, PHYS 1214 + 1211
GEOL 363	GIS in the Geosciences	3			GEOL 101, 200
GEOL 370	Biogeochemistry	3			ENSCI 200 or GEOL 101, CHEM 1134 + 1131
ENSCI 200	Earth Systems Science	3			ENSCI 100, GEOL 101, CHEM 1134 + 1131, PHYS 1214 + 1211
ENSCI 303	Environmental Microbiology	3			BIOL 105, GEOL 101, ENSCI 100, and ENSCI 200 or permission. CHEM 1134 + 1131 recommended.
ENSCI 380	Field Environmental Hydrology	3		n/a	ENSCI 111 or GEOL 101 or permission
Total credits			62	41	

*GEOL BA students may take either MATH 141 or 151.

**Additional elective courses may be offered.

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.

–For both the BA and BS: Depending on a student's career goals, a semester of Biology (with lab) may be substituted for Physics with permission of the Geology advisor.