

Course code	Course name	Lecture hours	Lab hours	Credits	Credits required for BS	Credits required for BA	Pre-reqs/co-reqs
Introductory course							
GEOL 101	Physical Geology	3	3	4	4	4	–
Supporting courses							
ENSCI 100	Our Planet in the 21st Century	3	3	4	4	4	–
MATH 151	Calculus I	4		4	4	3	–
MATH 152	Calculus II	4		4	4		MATH 151
CHEM 113	General Chemistry I (113.4 and 113.1)	3	3	5	5	5	–
CHEM 114	General Chemistry II (114.4 and 113.1)	3	3	5	5		CHEM 113
PHYS 121/145	General Physics I (121.4 and 121.1)	4	2	5	5	5	–
PHYS 122/146	General Physics II	4	2	5	5		PHYS 121/145
Core courses							
GEOL 102	Historical Geology	3	3	4	4	4	GEOL 101
GEOL 200	Methods in Geoscience	3		3	3	3	GEOL 101
GEOL 201	Minerals, Igneous and Metamorphic Rocks	3	3	4	4	4	GEOL 101/102,200
GEOL 208	Sedimentology and Landscape Evolution	3	3	4	4	4	GEOL 101/102
GEOL 214	Earth's Internal Processes	2	3	3	3	3	GEOL 101/102
GEOL 216	Dynamics of the Oceans and Atmospheres	2	3	3		3	GEOL 101 or ENSCI 200, MATH 141/GEOL 102
Advanced and elective courses							
GEOL 361	Geology in the Field	15		3	3		GEOL 201,208,214 or permission
GEOL 313W	Stratigraphy and Paleoenvironments	2	3	3			GEOL 101,102,208
GEOL 328W	Volcanoes and Climate	3		3			GEOL 201 or 216 or permission
GEOL 347	Principles of Hydrology	2	3	3			GEOL 101, CHEM 113.4,113.1, PHYS 121
GEOL 363	GIS in the Geosciences	3		3			GEOL 101,200
GEOL 370	Biogeochemistry	3		3			ENSCI 200 or GEOL 101, CHEM 113.4,113.1
ENSCI 200	Earth Systems Science	3		3			ENSCI 100, GEOL 101, CHEM 113.4,113.1, PHYS 121.4,121.1
ENSCI 203	Environmental Microbiology	3		3			BIOL 105, GEOL 101, ENSCI 100, and ENSCI 200 or permission. CHEM 113.4,113.1 recommended
ENSCI 380	Field Environmental Hydrology	3		3			ENSCI 111 or GEOL 101 or permission
<i>Additional elective courses may be offered.</i>							
Total credits					66	48	

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.