

Environmental Science BS

FOUR-YEAR ACADEMIC PLAN

12 Required Core Credits

18 Flexible Core Credits

12 College Option Credits

67 Major Credits

11 Elective Credits

120 Total

This 4-year academic plan is designed to help freshmen entering Queens College in Fall 2019 plan their academic career and ensure that they complete all requirements for graduation in a timely fashion. All other students should consult their academic and department advisors to chart their own 4-year academic plans. Students should note that course pre-requisite/s and co-requisite/s are strictly enforced and they should regularly meet with their department advisors to identify their specific major/minor requirements and entrance and maintenance criteria (if applicable) for successful completion of their degree.

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Freshman

FALL

English Composition I (EC1)	3 credits
Individual & Society (IS)	3 credits
ENSCI 100 (SW)	4 credits
Our Planet in 21st Century	
BIOL 105 (SW)	4 credits
General Biology I	
General Elective	1 credits

Fall total credits

15 credits

SPRING

English Composition II (EC2)	3 credits
US Experience in Its Diversity (USED)	3 credits
GEOL 101 (LPS)	4 credits
Physical Geology	
World Cultures & Global Issues (WCGI)	3 credits
Creative Expression (CE)	3 credits

Spring total credits

16 credits

Sophomore

FALL

PHYS 1214 + 1211 (SCI)	5 credits
General Physics I with Lab	
Math 151 (MQR)	4 credits
Calculus I	
CHEM 1134 + 1131 (SCI)	5 credits
General Chemistry I with Lab	
General Elective	1 credits

Fall total credits

15 credits

SPRING

ENSCI 200	3 credits
Earth Systems Science	
GEOL 102 (SCI)	4 credits
Historical Geology	
ENSCI 203	3 credits
(or other Core Course major elective*)	
Environmental Microbiology	
College Option Literature (LIT + W)**	3 credits
College Option Language (LANG)	4 credits

Spring total credits

17 credits

General Education requirements may be taken in any order if the pre-requisite requirement(s) is/are satisfied.

* See list of Core, Advanced, Supporting science and Statistics major electives.

** If a Literature course is taken with a W, it will count towards Literature and one Writing Intensive Unit.

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Junior

FALL

MATH 152 (other elective Supporting Science course*) Calculus II	4 credits
GEOL 216 (or other Core Course major elective*) Oceans and Atmosphere	4 credits
BIOL 106 (other elective Supporting Science course*) General Biology II	4 credits
Second major, minor, or general electives	3 credits

Fall total credits

15 credits

SPRING

BIOL 230 (other elective major Statistics Course*) Biostatistics	3 credits
GEOL 318 (or other Advanced Course major elective*) Soils in the Environment	4 credits
Second major, minor, or general electives	9 credits

Spring total credits

16 credits

Senior

FALL

ENSCI 373W (W) Environmental Problem Solving	3 credits
GEOL 347 (or other Advanced Course major elective*) Principles of Hydrology	3 credits
GEOL 356 (or other Advanced Course major elective*) Adv. Oceanography	3 credits
Second major, minor, or general electives	6 credits

Fall total credits

15 credits

SPRING

ENSCI 377 (or other Advanced Course major elective*) Biosphere-Atmos. Inter.	3 credits
Second major, minor, or general electives	10 credits

Spring total credits

13 credits

*Environmental Science electives:

Core Course electives: GEOL 208 Surficial Processes; BIOL 201 General Microbiology;
Advanced Course electives: GEOL 318 Soils in the Environment; GEOL 328 Volcanoes & Climate; GEOL 342 Introduction to Meteorology; GEOL 347 Principles of Hydrology; GEOL 349 Environmental Geology; GEOL 356; Advanced Oceanography; GEOL 370 Biogeochemistry; GEOL 363 GIS in the Geosciences; ENSCI 203 Environmental Microbiology; ENSCI 377 Biosphere-Atmosphere Interactions; BIOL 340 General Ecology; ENSCI or GEOL 383 Special topics in Environmental Science/Geosciences; ENSCI 397 Internship in Environmental Science
Supporting Science electives for BS: MATH 114 (or Math 241 or Biol 230); BIOL 106 General Biology 2; GEOL 102 Historical Geology; CHEM 114.4/.1 General Chemistry 2; PHYS 122.4/.1 General Physics 2; MATH 152 Calculus 2 (or Math 142); GEOL 200 Geologic Methods

**General Electives: Students may complete general electives by taking courses in (most) department/s or programs they choose; however, depending on the course/program, students may need department permission and/or prerequisite course/s. Electives may be used to supplement the chosen major (an English major may want to take a course in French or Italian literature) or to fulfill interest in a different area (a Music major may be interested in the physics of sound). Students are encouraged to use available electives to complete a dual major, minor, pre-requisites for graduate or professional school, or complete and internship, experiential learning and/or study abroad. Students are encouraged to use their available general electives wisely and focus on