QUEENS COLLEGE

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

This 4-year academic plan is for freshmen entering Queens College in Fall 2021. Our 4-year academic plans are illustrative examples of integrated degree requirements and course sequencing for each of the College's programs of study which are designed to ensure degree completion in a timely manner. Students are advised to meet with professional and faculty advisors to tailor their degree maps to their individual interests (academic and career goals), as well as other considerations including course offerings and the incorporation of winter and summer sessions. Course pre-requisite/s and co-requisite/s are strictly enforced, as are entrance and maintenance criteria (if applicable) for the successful completion of the degree.

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Freshman

FALL

English Composition I (EC1)	3 credits
Individual & Society (IS)	3 credits
ENSCI 100 (SW) Our Planet in 21st Century	4 credits
BIOL 105 (SW) General Biology I	4 credits
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) Physical Geology	4 credits
World Cultures & Global Issues (WCGI)	3 credits
Creative Expression (CE)	3 credits
Spring Total credits	**16 credits**

Sophomore

FALL

PHYS 1214 + 1211 (SCI) General Physics I with Lab	5 credits
Math 151 (MQR) Calculus I	4 credits
CHEM 1134 + 1131 (SCI) General Chemistry I with Lab	5 credits
General Elective	1 credits
Fall Total credits	**15 credits**

SPRING

ENSCI 200 Earth Systems Science	3 credits
GEOL 102 (SCI) Historical Geology	4 credits
ENSCI 203 (or other Core Course major elective*) Environmental Microbiology	3 credits
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 328W 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 coursework that will assist them personally, academically and professionally.

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