

ENVIRONMENTAL SCIENCE

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The Environmental Science Program, offered through the Natural Sciences Department, leads to an Associate in Science (AS) degree. The program has been designed to give students a solid preparation in the basic sciences as well as in the liberal arts. Many of the life science courses will include a fieldwork component that will focus on New York City. After completion of the Fundamentals of Biology and General Chemistry courses, students will be introduced in the "Fundamentals of Ecology" course to the basics of energy flow, ecosystem analysis and community interaction. The capstone course "Environmental Science" has an interdisciplinary approach integrating the underlying principles of global ecology with the interaction of climate, human technology and population growth. The laboratory portion of "Environmental Science" emphasizes team research on original projects, a research presentation and a submission of a written research report into the students' ePortfolio. Students will have an opportunity to complete internships at pollution control stations, government facilities and community based environmental organizations.

The Environmental Science Program is fully articulated with the School of Earth and Environmental Sciences at Queens College. The School of Earth and Environmental Sciences provides an interdisciplinary approach to environmental studies allowing students to concentrate their studies in biology, chemistry or geology. Graduates of LaGuardia's Environmental Science Program will transfer with 60 credits and have the opportunity to pursue a Bachelor's degree at Queens College in Environmental Science or Environmental Studies.

Students who need additional skill development in reading, writing, mathematics, and communication will be required to take basic skills and/or ESL courses. These courses are not listed in the curriculum. Scores on the College placement test determine the particular courses students must successfully complete. For more information on basic skills requirements, see page 197.

Descriptions of courses in this major begin on page 184.

It is recommended that the Internship be taken as a "Mentor" Internship within the Art program.

Environmental Science: AS Degree

PATHWAYS COMMON CORE: 30 - 34 CREDITS

This program has a waiver to require STEM courses in the Common Core.

A. REQUIRED CORE: 13 credits

English: 6 credits

ENG101 English Composition I (ENA101 or ENC101 depending on placement scores)	3
ENG102 Writing through Literature	3

Mathematical and Quantitative Reasoning: 3 credits

<i>Select one of the following courses:</i>	3
MAT115 College Algebra and Trigonometry (STEM)	
MAT120 Elementary Statistics I (STEM)	

Life & Physical Sciences: 4 credits

SCB201 Fundamentals of Biology I (STEM)	4
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B. FLEXIBLE CORE: 18 Credits

Select one course from each of the five flexible core categories AND one additional course from any flexible core category. Note: Student can select only two courses from any one discipline.

World Cultures and Global Issues
US Experience in its Diversity
Creative Expression
Individual and Society
Scientific World – Students are required to take
SCB202 Fundamentals of Biology II

Students are advised to select one Urban Study course to complete college requirement.

To complete the degree requirements from the Flexible Core, students are advised to select courses from the recommended course selections listed in the program handbook.

PROGRAM CORE: 28 CREDITS

Counseling

New Student Seminar	0
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Natural Sciences: 24 credits

SCB260 General Microbiology	4
SCB265 Fundamentals of Ecology	4
SCC201 General Chemistry I	4
SCC202 General Chemistry II	4
SCG150 Introduction to Geographic Information Systems	4
SCG250 Environmental Science	4

Unrestricted electives: 4 credits

TOTAL CREDITS:	60
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