

Environmental Science Program

Division of Biology & Chemistry – Curriculum Code : 2107

Will Earn Upon Program Completion: Associate in Applied Science (A.A.S.) Degree

Why major in Environmental Science?

This major prepares you for careers in the environmental, remediation, petroleum, and civil engineering fields as laboratory technicians, field analysts, and environmental technicians. With experience, you may find positions in research exploration, production, and consumer service.

If I major in Environmental Science, can I transfer to an upper-division college or university?

The major is job-oriented and not designed for transfer to a baccalaureate program. However, credits earned in this associate degree program are transferable to the Environmental Science program at Rutgers-Newark. In addition, other colleges and universities will apply some or all of the courses you have taken towards a bachelor's degree, depending upon their program requirements.

Are there any requirements I must satisfy before I start taking courses in my major?

The basic skills competency test is a requirement for all majors. Major course work can begin once you have completed all developmental courses. In addition, if you are at the final level of remediation in mathematics and English, you can take either BIO 100 or CHM 100. While neither of these courses count toward graduation in this major, they provide an introduction to basic biology and chemistry that will prepare you for this program.

How long will it take for me to complete this degree?

If you do not need remedial courses and you can take 17 credits per semester, you should be able to complete the program in two years. You can shorten the amount of time by taking courses in the summer sessions.

Where should I direct specific questions about this program?

For answers to questions on the Environmental Science A.A.S program, call the Division at (973) 877-3430.

Upon completion of this program, graduates will be able to:

- ◆ Demonstrate mastery of the fundamental concepts of biology, geology, and chemistry;
- ◆ Perform qualitative, quantitative, and instrumental analysis of geological data and samples using standard tools and equipments;
- ◆ Use the computer for collecting and assessing laboratory and field data and for preparing reports;
- ◆ Demonstrate knowledge of environmental field standards;
- ◆ Enhance employability in the environmental workforce.

Environmental Science — A.A.S. Degree Program

<p>GENERAL EDUCATION REQUIREMENTS: (27 credits)</p> <p>Communications (6 credits) ENG 101 College Composition I 3 ENG 102 College Composition II or ENG 105 Technical Writing 3</p> <p>Social Science (6 credits) Select two courses from: ANT 101, 105; ECO 101, 102; POL 101, 104; PSY 101, 102, 219; SOC 101, 108 6</p> <p>Lab Science/Math (12 credits) BIO 103 General Biology I 4 BIO 104 General Biology II 4 MTH 119 Pre-Calculus I 4</p> <p>Humanities (3 credits) HST 101, 102, 111, 112, 121, 122, 131, 132, 134, 135, 136, 137, 161 or 162 3</p> <p>MAJOR COURSE REQUIREMENTS: (24 credits)</p> <p>BIO 220 Intro. To Environ. Science 4 CHM 103 General Chemistry I 4 CHM 104 General Chemistry II 4 GEO 101 Geology I 4 GEO 102 Geology II 4 MTH 120 Pre-Calculus II 4</p> <p>ADDITIONAL COURSE REQUIREMENTS: (11 credits)</p> <p>CIS 137 Microcomputer Databases 3 Two Science electives 8</p> <p>Electives must be selected from the following courses: BIO 211 Microbiology 4 BIO 237 Genetics 4 CHM 203 Organic Chemistry I 4 CHM 204 Organic Chemistry II 4 PHY 113 Astronomy 4 PHY 114 Meteorology 4</p> <p>Total Credits Required for Degree 62</p>	<p>RECOMMENDED SEQUENCE OF COURSES:*</p> <p>First Semester BIO 103 General Biology I 4 CHM 103 General Chemistry I 4 ENG 101 College Composition I 3 MTH 119 Pre-Calculus I 4</p> <p>Second Semester BIO 104 General Biology II 4 CHM 104 General Chemistry II 4 ENG 102 College Composition II 3 MTH 120 Pre-Calculus II 4</p> <p>Third Semester Science Elective 4 GEO 101 Geology I 4 BIO 220 Intro. To Environ. Science 4 Social Science requirement 3</p> <p>Fourth Semester Science Elective 4 GEO 102 Geology II 4 CIS 137 Microcomputer Spreadsheet 3 Social Science Requirement 3 History Requirement 3</p>
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***NOTE:** This plan assumes the completion of all required developmental courses in reading, writing, and mathematics as well as other pre- and co-requisites for some of the courses, as listed in the Course Descriptions section.