Environmental Science (A.S.)

Division of Biology, Chemistry & Physics — Curriculum Code 2207

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

The Environmental Science degree program provides an opportunity for students interested in the environment and related fields to complete introductory course work in this area. The major will begin to prepare students for careers in the environmental, remediation, petroleum, and civil engineering fields as laboratory technicians, field analysts, and environmental technicians. The curriculum is similar to the first two years of bachelor's degree programs at four-year colleges and universities. Emphasis is placed on the scientific method and critical analysis that will enable the student to be a contributor to any scientific team.

COURSES

Program Requirements

GENERAL EDUCATION REQUIREMENTS (33 CREDITS)

Written & Oral Communication (6 credits)
ENG 101 (3 credits)
ENG 102 (3 credits)

Quantitative Knowledge & Skills (4 credits)
MTH 100 (4 credits)

Scientific Knowledge & Reasoning (8 credits)
BIO 103 (4 credits)
BIO 104 (4 credits)

Society & Human Behavior (6 credits)
Choose two of the following courses: ANT 101ANT 105ECO 101ECO 102POL 101POL 104PSY 101PSY 102PSY 219SOC 101SOC 108or SOC 219 (two 3-credit courses)

Note: ECO 102 is recommended.

Humanistic Perspective (6 credits)
Choose one of the following literature courses: ENG 205ENG 208ENG 215ENG 221ENG 222ENG 232ENG 237ENG 238ENG 242ENG 250ENG 263or ENG 264 (one 3-credit course)
AND
Choose one of the following art or music courses: ART 100ART 101ART 102MUS 100MUS 108MUS 109or MUS 117 (one 3-credit course)

Historical Perspective (3 credits)
Choose one of the following history courses: HST 101HST 102HST 111HST 112HST 121HST 122HST 131HST 132HST 134HST 135HST 136HST 137HST 161or HST 162 (one 3-credit course)

MAJOR COURSE REQUIREMENTS (28 CREDITS)
CHM 103 General Chemistry I (4 credits)
CHM 104 General Chemistry II (4 credits)
GEO 101 Rocks, Minerals & Fossils (4 credits)
GEO 102 Land Processes & Natural Disasters (4 credits)
BIO 220 Introduction to Environmental Science (4 credits)
MTH 101 Statistics & Probability I (4 credits)
Choose ONE course from the following:
BIO 225 Plant Science (4 credits)
or
BIO 230 Ecology and Evolution (4 credits)

Note: The minimum passing grade for all courses designated BIO, CHM, MTH or GEO is "C." If you earn a grade below "C," you must repeat that course.

RECOMMENDED SEQUENCE OF COURSES
Total Credits Required for Degree: 61

First Semester
BIO 103 General Biology I (4 credits)
ENG 101 College Composition I (3 credits)
GEO 101 Rocks, Minerals & Fossils (4 credits)
MTH 100 Introductory College Mathematics (4 credits)

Second Semester
BIO 104 General Biology II (4 credits)
ENG 102 College Composition II (3 credits)
GEO 102 Surface Processes & Natural Disasters (4 credits)
MTH 101 Statistics and Probability I (4 credits)
Society & Human Behavior requirement (one 3-credit course)

Third Semester
CHM 103 General Chemistry I (4 credits)
BIO 220 Introduction to Environmental Science (4 credits)
Society & Human Behavior requirement (one 3-credit course)
Humanistic Perspective literature requirement (one 3-credit course)

Fourth Semester
CHM 104 General Chemistry II (4 credits)
BIO 225 Plant Science (4 credits) or BIO 230 Ecology and Evolution (4 credits)
Humanistic Perspective art or music requirement (one 3-credit course)
Historical Perspective requirement (one 3-credit course)

NOTES:

(1) The two General Education Integrated Course Goals, Ethical Reasoning & Action and Information Literacy, are both addressed by the required curriculum described above, regardless of specific choices made by the individual student.

(2) This plan assumes the completion of all required developmental courses in Reading, English, and Mathematics as well as other pre-requisites and co-requisites for some of the courses, as listed in the Course Descriptions section.