



CURRICULUM GUIDE 2011-2012

ENVIRONMENTAL SCIENCE

Associate in Science in Environmental Science

The Associate in Science in Environmental Science offered by Ohlone College is designed to prepare students for studying Environmental Science at most universities. The core courses in the Associate in Science degree in Environmental Science will fulfill the lower division requirements for most campuses of the UC and CSU systems. This program will enable students to develop a strong foundation in the life and physical sciences, as well as a foundation in the functioning of living systems including population growth, ecology, toxicology, geologic processes, energy resources, pollution, and human attitudes toward nature. Through these courses students will gain a better understanding of how humans are intimately connected with the environment and how human activities impact and are impacted by the environment. Careers in biological consultant, ecosystem and habitat restoration, environmental field or lab technician, environmental health scientist, and environmental manager all require knowledge of environmental issues and the functioning of ecosystems.

Since some curriculum requirements may vary among transfer universities, it is imperative that students entering Ohlone's Associate in Science degree program in Environmental Science meet with a counselor at the start of their academic work. Counselors will assist students in preparing a Student Education Plan that will prepare them to transfer to the university of their choice. Counselors will also advise students on the general education plan that best prepares them for the future transfer.

Requirements for Associate in Science Degree:

- a) Complete the Major Field courses with a grade of C or better.
- b) Complete Plan A, B, or C General Education requirements. These requirements are specified in the Ohlone College catalog.
- c) Complete at least 60 degree-applicable units with a 2.0 grade point average.
- d) Complete at least 12 units at Ohlone College.
- e) Complete at least 50% of the Major Field courses at Ohlone College.
- f) Complete BIOL-108, BIOL-142, ENVS-101, ENVS-102, ENVS-103, and GEOG-121 at Ohlone College.

MAJOR FIELD

| | | |
|-----------|--|----------|
| BIOL-101A | Principles of Biology -- Molecular and Cellular | 5 |
| BIOL-101B | Principles of Biology -- Organisms and Systems | 5 |
| BIOL-108 | Human Ecology | 3 |
| BIOL-142 | Environmental Biology | 4 |
| CHEM-101A | General Chemistry | 5 |
| CHEM-101B | General Chemistry | 5 |
| ENVS-101 | Natural Resource Management | 3 |
| ENVS-102 | Environmental Law and Regulations | 3 |
| ENVS-103 | The Environment and Human Health | 3 |
| GEOG-101 | Physical Geography | 4 |
| GEOG-121 | Introduction to Geographic Information Systems (GIS) | 2 |
| MATH-101A | Calculus with Analytic Geometry | <u>5</u> |
| | Total Required Units: | 47 |

RECOMMENDED COURSES

| | | |
|-----------|--|-----|
| BA-102B | Principles of Economics-Microeconomics | (3) |
| CHEM-112A | Organic Chemistry | (5) |
| CHEM-112B | Organic Chemistry | (5) |
| GEOG-122 | Environmental GIS | (2) |
| GEOG-123 | GIS Projects | (1) |
| GEOL-101 | Introduction to Geology | (4) |
| MATH-159 | Introduction to Statistics | (5) |
| PHYS-120 | Introduction to Physics I | (4) |
| PHYS-121 | Introduction to Physics II | (4) |