



## **CURRICULUM GUIDE 2015-2016**

### **ENVIRONMENTAL STUDIES**

#### **Associate in Arts in Environmental Studies**

The Associate in Arts degree in Environmental Studies offered by Ohlone College is designed to prepare students for studying Environmental Studies at most universities. The core courses in the associate degree in Environmental Studies 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, geospatial, and physical sciences. Students will gain a strong foundation in the functioning of living systems, demography, climatology, food systems, urbanization, ecology, toxicology, geologic processes, energy resources, pollution, and human attitudes towards 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 natural resource management, land use planning, business, energy development and management, environmental consulting, waste/energy management, pollution control, ecologist, law, environmental administration, and environmental activist/lobbyist 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 AA degree program in Environmental Studies meet with a counselor at the start of their academic work. Counselors will assist students in preparing a comprehensive 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 Arts Degree:**

- a) Complete the Major Field courses and one of the four Options with a grade of C or better.
- b) Complete Ohlone College General Education (Plan A), CSU GE (Plan B), or IGETC (Plan C) 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.

#### **Student Learning Outcomes**

1. Recognize the social, economic, and environmental impacts of humans on the earth.
2. Apply an understanding of science and ecological principles to modern life so students may critically analyze and understand information affecting the environment.
3. Describe the effects of current, past, and future energy and resource use, and compare and contrast possible solutions to environmental problems.
4. Evaluate environmental policies, laws, and regulations, their value, implementation, and effects.
5. Examine the inherent environmental, social, and economic outcomes of living sustainably on current and future generations.
6. Explore a variety of environmental field and laboratory techniques that will emphasize different fields of environmental studies.

**MAJOR FIELD**

ENVS-101	Natural Resource Management	3
ENVS-102	Environmental Law and Regulations	3
ENVS-103	The Environment and Human Health	3
ENVS-108	Introduction to the Environment	3
ENVS-142	Environmental Biology	<u>4</u>
		16

Complete one of the Options listed below.

**Option 1: Climate and the Environment**

ENVS-105	Energy: The Environment, Humans, and Sustainability	3
ENVS-110	Climate Change	<u>3</u>
		6

**Option 2: Urbanization and Agroecology**

ENVS-107	Food, Culture, and the Environment	3
ENVS-109	Sustainable Urban Design and the Environment	<u>3</u>
		6

**Option 3: Energy Policy and Development**

ENVS-105	Energy: The Environment, Humans, and Sustainability	3
ENVS-104	Solar Photovoltaic Design and Installation OR	3
ENVS-106	Wind Energy OR	(3)
ENVS-109	Sustainable Urban Design and the Environment	<u>(3)</u>
		6

**Option 4: Geospatial Systems and GIS**

GEOG-121	Introduction to Geographic Information Systems (GIS)	2
GEOG-122	Environmental GIS	2
GEOG-123	Geographic Information Systems (GIS) Projects	<u>1</u>
		5

Total Required Units: 21-22