

Environmental Studies AA

Associate of Arts Degree: Transfer Major

The Associate of Arts Transfer 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 AA 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 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 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 resources, land use planning, business, energy, waste management, pollution control, law and environmental administration 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 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.

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. Consider the inherent environmental, social and economic outcomes of living sustainably on current and future generations.
6. Gain experience with a variety of environmental field and laboratory techniques that will emphasize different fields of environmental studies.

Requirements for AA Degree:

- a) Complete the Major Field courses with a 2.0 grade point average.
- b) Complete Plan A, B, or C General Education requirements. These are specified in the Ohlone College catalog.
- c) Complete at least 60 degree – applicable units with a 2.0 grade point average.
- d) Complete BIOL 108, BIOL 142, GEOG 121, GEOG 122, GEOG 123, ENVS 101, ENVS 102, and ENVS 103 at Ohlone College.

MAJOR FIELD

ENVS 101 Natural Resource Management	3
ENVS 102 Environmental Law and Regulations	3
ENVS 103 The Environment and Human Health	3
BIOL 108 Human Ecology	3
BIOL 142 Environmental Biology	4
BA 102B Principles of Economics-Microeconomics	3
CHEM 106A Principles of Chemistry	4
GEOG 101 Physical Geography	4
GEOG 102 Cultural Geography	3
or	
GEOG 105 California Geography	3
or	

ANTH 102 Cultural Anthropology	3
GEOG 121 Introduction to Geographic Information Systems (GIS)	2
GEOG 122 Advanced Desktop GIS	2
GEOG 123 GIS Projects	2
MATH 159 Elements of Statistics and Probability	5
WEX 195A1 Occupational Work Experience Education	1 - 4

Total Units = 42 - 45

RECOMMENDED COURSES

BIOL 101A Principles of Biology--Molecular & Cellular Biology	5
BIOL 101B Principles of Biology - Organisms and Systems	5
CHEM 101A General Chemistry	5
CHEM 112A Organic Chemistry	5
CHEM 112B Organic Chemistry	5
GEOL 101 Introduction to Geology	4
PHYS 120 Introduction to Physics I	4
PHYS 121 Introduction to Physics II	4

Total Units = 37

Environmental Studies AS

Associate of Science Degree: Transfer Msjor

The Associate of Science Transfer 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 AS 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 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 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 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 AS degree program in Environmental Studies 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.

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. Consider the inherent environmental, social and economic outcomes of living sustainably on current and future generations.
6. Gain experience with a variety of environmental field and laboratory techniques that will emphasize different fields of environmental studies.
7. Demonstrate applied environmental science techniques.

Requirements for AS Degree

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

REQUIRED COURSES

BIOL 101A Principles of Biology--Molecular & Cellular Biology	5
BIOL 101B Principles of Biology - Organisms and Systems	5
BIOL 108 Human Ecology	3
BIOL 142 Environmental Biology	4
BA 102B Principles of Economics-Microeconomics	3
CHEM 101A General Chemistry	5
CHEM 101B General Chemistry	5
GEOG 101 Physical Geography	4
GEOG 121 Introduction to Geographic Information Systems (GIS)	2
MATH 101A Calculus With Analytic Geometry	5
ENVS 101 Natural Resource Management	3

ENVS 102 Environmental Law and Regulations	3
ENVS 103 The Environment and Human Health	3
Total Units = 50	

RECOMMENDED COURSES:

BA 102B Principles of Economics-Microeconomics	3
CHEM 112A Organic Chemistry	5
CHEM 112B Organic Chemistry	5
GEOG 121 Introduction to Geographic Information Systems (GIS)	2
GEOG 122 Advanced Desktop GIS	2
GEOG 123 GIS Projects	2
GEOL 101 Introduction to Geology	3
MATH 159 Elements of Statistics and Probability	5
PHYS 120 Introduction to Physics I	4
PHYS 121 Introduction to Physics II	4
or	
MATH 101B Calculus With Analytic Geometry	5
Total Units = 35 - 36	