

# SCIENCE

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## **ASSOCIATE in SCIENCE (A.S.) DEGREE IN LIBERAL ARTS Environmental Science Option**

*(Starting Fall 2010)*

This option is for students who desire a concentration in environmental science, ecology, geology and who plan to transfer to a four-year institution to pursue a B.A. or B.S. in environmental science and to pursue a career in science teaching, environmental testing and compliance, research, management, or development of technology. For ease of transfer, the curriculum is based in the liberal arts allowing students to complete general education requirements. It is designed to fit the curricula of science programs at other colleges.

### **Graduates will be able to:**

- Demonstrate understanding of basic science laws and theories
  - Apply the scientific method to problem solving
  - Apply mathematical skills and reasoning to scientific problems applied to the environment
  - Perform scientific investigations while properly utilizing laboratory equipment and instruments in a safe and effective way.
  - Analyze experimental data based on recording observations and collecting data
  - Write lab and class reports using scientific terminology
  - Demonstrate comprehension of environmental issues on a local, regional, and global scale
  - Transfer to a baccalaureate program
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## **General Education Requirements (32 credits)**

### **Communications (6 credits)**

EN 101 Composition I -3

EN 102 Composition II -3

### **Mathematics (3 Credits)**

MA 103 Basic Statistics -3

### **Science (8 credits)**

CH 111/112 General Chemistry I/II- 8

### **Technology (3 credits)**

CIS 101 Computer Concepts and Applications - 3

or

CIS 107 Information Technology Fundamentals  
and Applications -3

### **Social Science (6 credits)**

SO 101 Intro. To Sociology -3

PS 101 Intro. To Psychology -3

### **Humanities (6 credits)**

AE 101 Art Appreciation - 3

or

MU 106 Music Appreciation - 3

or

ST 112 Introduction to Theater- 3

PH 101 Intro. To Philosophy- 3

**Total General Education Credits 32**

## **Major Requirements (18 credits)**

SC-106 Green Energy 4

*8 credits from the following courses to  
include a sequence:*

BS 101 Biology I 4

BS 102 Biology II 4

or

PY 101 College Physics I and 4

PY 102 College Physics II 4

or

PY 120 Physics I 4

PY 121 Physics II 4

or

CH 211 Organic Chemistry I 4

CH 212 Organic Chemistry II 4

*6 credits from the following courses*

EN 205 Intro. To Literature 3

HI 101 Western Civ. I 3

HI 102 Western Civ. II 3

**Total Major Credits 18**

### **Option Requirements**

SC-104 Intro. to Env. Science 4

BS 204 Intro. to Ecology 4

SC 202 Intro. to Geology 4

**Total Option Credits 12**

**Total Degree Credits 62**

*Minimum Grade of "C" required in all science  
And math courses.*