**COURSE OUTLINE COVER SHEET**

**CIP No. 26.1301**  
**SCI 111**  
**Alpha Number**  

**Course Title**  
Environmental Science

**Course Description**

Introduces students to the concept of ecosystems and their main functions. Exposes students to the global and local ecological communities, resources, and human impacts. Presents environmental problems including their causes, effects and possible solutions.

**Course prepared by:**  
Donald Hess  
June 2004

<table>
<thead>
<tr>
<th>Lecture</th>
<th>Hours per Week</th>
<th>Number of Weeks</th>
<th>Total Hours</th>
<th>Credits</th>
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<td></td>
<td>3</td>
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<td>48</td>
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<td>Laboratory</td>
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<td>Clinical</td>
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<tr>
<td>Seminar</td>
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Total Credit Hours: 4

**Purpose of Course:**

- Degree Requirement
- Degree Elective: X
- Certification
- Developmental
- Other

**Prerequisite(s):** ENG 101 and ENG 105

**Signature, Curriculum & Assessment Committee Chairperson**  
2-23-09

**Signature, Dean of Academic Affairs**  
2/29/09

**Signature, Vice President for Academic and Student Affairs**  
2/23/09

Last Date reviewed or revised: September 2008
I. **Environmental Science**  
Course Title

II. Course Objectives

A. General Outcomes

Students who complete this course will:
1. Understand the nature of ecosystems (GE 1, 3, 4) (LA 1, 3, 4)
2. Recognize the world's natural resources and develop realistic plans for conservation (GE 1, 2, 3, 4) (LA 1, 2, 3, 4)
3. Learn about human impacts on the environment and specific ecosystems (GE 1, 2, 3, 4) (LA 1, 2, 3, 4)

B. Student Learning Outcomes

Upon completion of this course, the student will be able to:
1. Explain the functioning of the world's different ecosystems
   a. Describe a variety of ecosystems and delineate the interactions within the system
   b. Describe biomes, particularly ocean and coral biomes
2. Develop plans for conservation of natural resources
   a. Relate what natural resources are and ways to conserve them
   b. Relate the range of environmental management concepts and ideologies and the importance of ecological economics to the overall concept of sustainability
3. Discuss the effect of human impacts on the environment
   a. Describe the present and predicted world ecocatastrophes
   b. Describe the impact of societal and governmental factors on the environment
   c. Plan and implement ways to influence the attitudes and actions of people in regards to the environment

III. Course Content

Students will be provided with an introduction to major topics in the field of environmental science.

1. Introduction of environmental science and sustainability
2. Ecosystems and energy
3. Ecosystems and living organisms
4. Ecosystems and the physical environment
5. Sustainability
6. Waste
7. Global issues

IV. Methods of Instruction

1. Lectures
2. Discussions
3. Videos
4. Group work
5. Individual work
6. Laboratory experiment
7. Field trips
8. Demonstrations
9. Guest lecturers
V. Equipment and Materials

1. Sympodium
2. Classroom Response System
3. Van for transportation

VI. Suggested Methods of Evaluation

1. Quizzes
2. Midterm
3. Final
4. Homework
5. Lab reports
6. Final Project

Letter grades will be assigned per CMI Grading System.
## Course History Summary

**Course Number:** SCI 111 *Environmental Science (4cr)*

<table>
<thead>
<tr>
<th>Date from Minutes</th>
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