

Prepared by the Department of Science

Date of Departmental Approval: January 18, 2018

Date approved by Curriculum and Programs: March 7, 2018

Effective: Fall 2018

**1. Title: ENV120  
Introduction to Environmental Science (Lecture Only)****2. Course Description**

A study of environmental interactions and the impact of humans on the environment. The use of natural resources, including land, air, water, mineral and biological resources, is examined. Local and global examples are presented to enable students to better understand and evaluate contemporary environmental problems and the application of science to their solution. Interdisciplinary knowledge is used to understand environmental problems. (3 class hours)

**3. Student Learning Outcomes (Instructional Objectives, Intellectual skills)**

Upon completion of the course, the student is able to:

- Explain the basic theory and principles of environmental science (including biodiversity, sustainability, resource utilization, climate change, plate tectonics).
- Identify and explain environmental interactions including population dynamics and abiotic/biotic systems.
- Define key environmental terms and use them in proper context in both written and verbal forms of communication.
- Recognize and evaluate contemporary environmental problems to understand how their decisions and behaviors impact local and global sustainability.
- Apply an interdisciplinary approach (using economics, political science, sociology, and physical and natural sciences) to understand environmental problems.
- Use word processing and spreadsheet software to prepare and present lecture assessments.

**4. Credits:** 3 credits**5. Satisfies General Education Requirement:** Application Pending**6. Prerequisite(s):** MAT020 (Prealgebra) or MAT025 (Prealgebra) or satisfactory basic skills assessment scores;  
**Co-requisite:** ENL101(English Composition I)**7. Semester(s) Offered:** Fall, Spring, Summer**8. Suggested Guidelines for Evaluation:** Exams and quizzes Project (presentation or paper) Participation in class discussions and assignments**9. General Topical Outline of the Course:**

- Introduction and Sustainability
- Scientific Method
- Matter & Energy
- Ecosystems
- Evolution & Extinction
- Biodiversity & Conservation
- Human Population
- Climate & Climate Change
- Land Resources and Agriculture
- Geological Processes, Soils and Minerals
- Water Resources & Pollution
- Air and Air Pollution
- Renewable and Non-renewable Energy
- Solid and Hazardous Waste
- Environmental Health Hazards
- Environmental Economics, Equity and Policy