

Discipline: Agriculture	Sub-discipline: General Agriculture
General Course Title: Environmental Conservation	Min. Units: 3 Semester
Proposed Suffix: L	
<p>Course Description: This course involves a study of the world's environment to sustain the highest quality of life. Includes study of ecology, populations, environmental pollution, conservation of natural resources including: energy, water, soils, forests, rangelands, and wildlife.</p>	
Required Prerequisites or Co-Requisites ¹	
Advisories/Recommended Preparation ²	
<p>Course Objectives: <i>At the conclusion of this course, the student should be able to:</i></p> <ul style="list-style-type: none"> • Evaluate the environmental conditions of humans in relationship to their total environment. • Analyze historical development of natural resources use to sustain for a higher quality life for humankind. • Interpret information about the environment. • Relate the broad principles of environmental conservation learned in class to everyday life. • List and describe soil conservation methods. • Evaluate the energy flow cycle. • Analyze the hydrologic cycle. • Analyze air and water pollution causes and discuss possible solutions. • Analyze the cause of solid, toxic and hazardous waste. • Evaluate land use policies. • Evaluate rangeland ecology topics. • Analyze the major ecosystems of the world as well as local ecosystems. • Explain the principles of the scientific method. 	
<p>Course Content:</p> <ol style="list-style-type: none"> 1. Understanding the environment 2. Species interaction 3. Ecosystems—local, global 4. Population and environmental health <ol style="list-style-type: none"> a. Population dynamics b. Environmental health and toxicology 5. Food, land and biological resources <ol style="list-style-type: none"> a. World hunger b. Soil conservation c. Sustainable agriculture d. Biodiversity e. Land use—forests and rangelands <p>Environmental Conservation (Content Continued)</p>	

¹ Prerequisite or co-requisite course need to be validated at the CCC level in accordance with Title 5 regulations; co-requisites for CCCs are the linked courses that must be taken at the same time as the primary or target course.

² Advisories or recommended preparation will not require validation but are recommendations to be considered by the student prior to enrolling.

- 6. Physical resources
 - a. Air, climate and weather
 - b. Air pollution
 - c. Water pollution
 - d. Conventional energy
 - e. Energy cycles
 - 7. Society and the environment
 - a. Solid, toxic and hazardous waste
 - b. Urbanization
 - c. Conclusions and analysis
- Laboratory Activities: Individual Laboratory Activities are designed to support course objectives.

Methods of Evaluation: Lecture Comprehensive Quizzes and Exams Written Critical Thinking Scenarios Problem Analysis and Solution Research and Term Papers	Methods of Evaluation: Laboratory Laboratory Skill Validation by Observation Laboratory Projects and Reports Laboratory Research Projects and Reports Laboratory Skill Practicum Exams
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Typical Textbooks, Manuals, or Other Support Materials
Environmental Science, Cunningham and Saigo, McGraw Hill,
 1999, 5th edition

CSU GE Area B.2 Life Science

FDRG Lead Signature: _____ Date: _____
 Mark E. Bender, PhD CSU Stanislaus

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