



El Camino College
COURSE OUTLINE OF RECORD – Official

Course Acronym:	SUST
Course Number:	201
Descriptive Title:	Theory of Environmental Stewardship
Division:	Industry and Technology
Department:	Environmental Technology
Course Disciplines:	Environmental Technology
Catalog Description:	This introductory course explores topics of sustainability. The topics range from a historical framework of environmentalism to urban ecology, the theories of regenerative landscape, landscape urbanism and deconstructivism in a post-industrial economy. Class discussion will include the role of commerce and governmental regulation and how it affects the emerging green economy. Additional topics include a 21st century view of how we interpret opportunities for revitalization and renovation of our urban spaces.
Prerequisite:	
Co-requisite:	
Recommended Preparation:	Eligibility for English 1A
Enrollment Limitation:	
Hours Lecture (per week):	3
Hours Laboratory (per week):	0
Outside Study Hours:	6
Total Course Hours:	54
Course Units:	3
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	Yes
Effective Date:	02/19/2013
Transfer UC:	No
Effective Date:	
General Education: ECC	
Term:	
Other:	
CSU GE:	
Term:	

Other:	
IGETC:	
Term:	
Other:	
<p>Student Learning Outcomes:</p>	<p>SLO #1 Environmental Current Events</p> <p>Given instruction in the processes of environmental research, the student engages in class discussion regarding environmentally driven current events from a regional to a global perspective.</p> <p>SLO #2 Writing About Sustainability</p> <p>From attendance and participation in class discussion, and further research outside of class, the student will be able to develop an argumentative and position-driven paper concerning an environmental and/or sustainable issue.</p> <p>SLO #3 Ten-Page Research Paper</p> <p>After participating in class discussion and writing a number of topic papers, the student will continue to develop a much deeper knowledge base of one of the previously chosen topics of sustainability and environmental awareness and craft a ten-page research paper on that topic.</p>
<p>Course Objectives:</p>	<ol style="list-style-type: none"> 1. Examine and discuss the topics of ecology, sustainability, environmentalism, and developing green technologies from an interdisciplinary approach. 2. Compare and contrast the varying positions of ecology and environmentalism from a historical perspective and formulate opinions of what would be appropriate strategies to resolve global environmental crisis. 3. Evaluate and interpret options and propose solutions to the environmental condition by utilizing principles of conservation, adaptive reutilization of materials, and recycling. 4. Explain transportation and compare and contrast alternative ideas from electric cars to high speed rail. 5. Explain housing models and compare and contrast alternative ideas from mixed-use commercial / housing to concepts of localism to urban farming and contrast to suburban sprawl.
<p>Major Topics:</p>	<p>I. HISTORICAL CONTEXT REVIEW AND THEORETICAL DISCUSSION OF THE VALIDITY OF THE PRINCIPLES OF SUSTAINABILITY (12 hours, lecture)</p> <ol style="list-style-type: none"> A. What defines sustainability? B. How is sustainability defined in relation to urbanism, landscape urbanism and ecological functionality? C. Is an urban ecology sustainable? D. Case study review of sustainable development E. The "Geography of Nowhere" F. Urban population growth: How do we supply water? <p style="padding-left: 40px;">How do we supply power?</p> <ol style="list-style-type: none"> G. The "Myth of Green Energy" H. Watersheds: How do we protect them?

- I. Urban watersheds and urban ecologies

II. HISTORICAL LESSONS OF THE ENVIRONMENTAL MOVEMENT AND INDUSTRIALIZATION OF THE 19TH AND 20TH CENTURIES (9 hours, lecture)

- A. Historical lessons
- B. Industrialization of the 19th and 20th centuries and the effects on the environment
- C. Invention, oil exploration, manufacturing
- D. Conservationism and environmentalism
- E. Car culture and the replacement of mass transit and trains
- F. Modern urban design theory of the early 20th century
- G. Do principles of modernism apply to the green movement?

III. RESPONSE OF GOVERNMENT TO ENVIRONMENTAL CRISIS (6 hours, lecture)

- A. Environmental crisis at the end of the 19th century
- B. Developing the National Park Service for the next generation
- C. Environmental Protection Agency in the 1970's
- D. California Environmental Quality Act (CEQA) - California's response to the National Environmental Protection Act
- E. What does government do today to resolve the environmental crisis?

IV. CONTRADICTIONS IN GOVERNMENTAL POLICY IN THE AREA OF ENVIRONMENTAL TECHNOLOGY (6 hours, lecture)

- A. Regulations
- B. Political versus regulatory agencies - competing views
- C. Competing agency guidelines

V. THE BUSINESS OF ECOLOGY (6 hours, lecture)

- A. Ecology and commerce
- B. Anti-business environment

VI. SOLUTIONS TO THE ENVIRONMENTAL CRISIS (15 hours, lecture)

- A. Conservationism
- B. Adaptive re-use
- C. Recycling
- D. Urban ecology
- E. Urban farming
- F. Localism
- G. New urbanism mixed-use development
- H. High speed rail
- I. Electric cars
- J. The European model
- K. The Living Building Challenge - The paradigm shift
- L. Is alternative energy a myth?

Total Lecture Hours:	54
Total Laboratory Hours:	0
Total Hours:	54
Primary Method of Evaluation:	1) Substantial writing assignments
Typical Assignment Using Primary Method of Evaluation:	Given the post industrial built environment, located in the Los Angeles Basin, write a three- to five-page essay (with charts and photos) on what strategies you would consider, that you have learned in class, in redeveloping a ten acre parcel of land. In your essay, provide answers from the discussions of the Principles of New Urbanism and Mixed-Use Housing to Landscape Urbanism, to employing Bio-Retention Basins and creating a model for implementing Water Reclamation. Submit essay to the instructor.
Critical Thinking Assignment 1:	Read two essays that are significant to the subject of sustainability. Compare and contrast these essays and formulate and express your opinion in a three- to five-page written report (with charts and photos). Submit report to the instructor.
Critical Thinking Assignment 2:	Prepare a five- to seven-page term paper (with charts and photos) based on the lectures and presentations made in class concerning the environmental movement and industrialization that would foster an interpretation and evaluation of the data presented. Submit term paper to the instructor.
Other Evaluation Methods:	Class Performance Essay Exams Homework Problems Objective Exam Reading Reports Term or Other Papers Written Homework
Instructional Methods:	Demonstration Discussion Field trips Guest speakers Lecture Multimedia presentations
If other:	
Work Outside of Class:	Study Answer questions Required reading Written work Journal Observation of or participation in an activity related to course content
If Other:	
Up-To-Date Representative Texts:	Laurie Olin and Greg Hise. <u>EDEN BY DESIGN The 1930 Olmsted-Bartholomew Plan for the Los Angeles Region</u> . University of California Press, 2000. (Discipline Standard)

	Johan Van Lengen. <u>BAREFOOT ARCHITECT</u> . Shelter Publications, 2008. (Discipline Standard)
Alternative Texts:	
Required Supplementary Readings:	
Other Required Materials:	
Requisite:	
Category:	
Requisite course(s): List both prerequisites and corequisites in this box.	
Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	
Requisite Skill:	
Requisite Skill and Matching Skill(s): Bold the requisite skill(s). If applicable	
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Requisite Skill:	Eligibility for English 1A
Requisite Skill and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s). If applicable	<p>Students need well-developed reading skills in order to understand and interpret information in their textbooks and writing skills to develop essays and projects.</p> <p>Summarize, analyze, evaluate, and synthesize college-level texts.</p> <p>Write a well-reasoned, well-supported expository essay that demonstrates application of the academic writing process.</p>
Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Greg George
Date:	09/26/2011

Original Board Approval Date:	02/19/2013
Last Reviewed and/or Revised by:	MARC YEBER
Date:	11/17/2023
Last Board Approval Date:	03/21/2024
Effective Term:	FALL 2024