

CATALOG INFORMATION

Dept and Nbr: ENVS 12

Title: POPULA/RESOURCE/ENV

Full Title: Population, Resources & Environment

Last Reviewed: 1/27/2020

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00	Lecture Scheduled	3.00	17.5	Lecture Scheduled	52.50
Minimum	3.00	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	3.00		Contact Total	52.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 105.00

Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable

Grading: Grade or P/NP

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

Catalog Description:
Interactions of population growth, technology, and resources, including land, water, air, energy, minerals, and food. Global and regional patterns of resource use and environmental impacts.

Prerequisites/Corequisites:

Recommended Preparation:
Completion of or concurrent enrollment in ENGL 100 or ESL 100. Eligibility for ENGL 1A.

Limits on Enrollment:

Schedule of Classes Information:
Description: Interactions of population growth, technology & resources. (Grade or P/NP)
Prerequisites/Corequisites:
Recommended: Completion of or concurrent enrollment in ENGL 100 or ESL 100. Eligibility for ENGL 1A.
Limits on Enrollment:
Transfer Credit: CSU;UC.
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	Area		Effective:	Inactive:
	C	Natural Sciences	Fall 1985	
	H	Global Perspective and Environmental Literacy		
CSU GE:	Transfer Area		Effective:	Inactive:
	B1	Physical Science	Fall 1985	
IGETC:	Transfer Area		Effective:	Inactive:
	5A	Physical Sciences	Fall 2008	
CSU Transfer:	Transferable	Effective:	Fall 1985	Inactive:
UC Transfer:	Transferable	Effective:	Fall 1985	Inactive:
CID:				
CID Descriptor:	ENVS 100	Introduction to Environmental Science		
SRJC Equivalent Course(s):		ENVS12		

Certificate/Major Applicable:

Not Certificate/Major Applicable

COURSE CONTENT

Outcomes and Objectives:

The successful student will

- Recognize the interdisciplinary nature of environmental studies.
- Acknowledge that most environmental questions do not have simple or unchanging answers.
- Appreciate the utility of models, hierarchies, mass and energy budgets, and classification schemes.
- Acquire and utilize fundamental science concepts related to mass, size, time, energy, equilibrium, evolution, and chemical behavior.
- Interpret graphs and charts of both theoretical and actual data, utilizing techniques of interpolation and extrapolation.
- Acquire and utilize a vocabulary of several hundred terms, the majority of which will have application beyond this course.
- Differentiate between projections and predictions, and have experience in the preparation of each.

Topics and Scope:

Ecosystems and species relationships. Nutrient cycling and energy flow, matter and energy laws.

Human population. Demographic variables, exponential growth, projections, national population policies.

Water, food, land, and energy resources. Analysis of supply and demand factors. Principal producers and consumers.

Air, water, and land pollution, pesticides, radioactivity, and noise.

Basic chemical principles. Waste management alternatives.

Environmental ethics. Philosophical considerations in environmental issues. Literature of environmental thought.

Assignment:

Weekly reading assignments in text.

Review of lecture notes which parallel, but do not duplicate, the text.

Study of supplementary materials, including charts, outlines, sample data, and articles from publications. These total over 50 pages.

Short papers involving library research.

Attendance and written reports of lectures, films, or other presentations related to course topics, which are given on campus or at nearby institutions.

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written homework, Essay exams

Writing
40 - 40%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Homework problems, Exams

Problem solving
20 - 20%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations
0 - 0%

Exams: All forms of formal testing, other than skill performance exams.

Multiple choice

Exams
40 - 40%

Other: Includes any assessment tools that do not logically fit into the above categories.

None

Other Category
0 - 0%

Representative Textbooks and Materials:

Miller, Environmental Science, An Introduction

Nebel, Environmental Science

Chiras, Environmental Science

The above texts are common adoptions at 2-year and 4-year institutions throughout the United States.

