**ENVS 12 Course Outline as of Fall 1985** 

### **CATALOG INFORMATION**

Dept and Nbr: ENVS 12 Title: POPULA/RESOURCE/ENV Full Title: Population, Resources & Environment Last Reviewed: 1/27/2020

Units		<b>Course Hours per Week</b>		Nbr of Weeks	<b>Course Hours Total</b>	
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:	<b>Area</b> C H	Natural Science Global Perspect Environmental	es tive and Literacy	Effective: Fall 1985	Inactive:
CSU GE:	<b>Transfer Area</b> B1	Physical Science	e	Effective: Fall 1985	Inactive:
IGETC:	<b>Transfer Area</b> 5A	Physical Scienc	es	Effective: Fall 2008	Inactive:
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 or 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

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

Homework problems, Exams

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

None

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

Multiple choice

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

None

<b>Representative Textbooks and Mate</b>	rials:
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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.

Writing	
40 - 40%	

Problem solving 20 - 20%

Skill Demonstrations 0 - 0%

> Exams 40 - 40%

Other Category 0 - 0%