ARCH 12 Course Outline as of Fall 2024

CATALOG INFORMATION

Title: INTRO ENVIRONMENT DESIGN Dept and Nbr: ARCH 12

Full Title: Introduction to Environmental Design

Last Reviewed: 1/25/2021

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: **ARCH 79**

Catalog Description:

Exploration of the work done in the design professions: architecture, landscape, and planning. Using case studies and environmental exploration, students will begin the process of articulating a personal design vocabulary. This is a project-based course.

Prerequisites/Corequisites:

Recommended Preparation:

Eligibility for ENGL 1A OR EMLS 10 (formerly ESL 10) or equivalent

Limits on Enrollment:

Schedule of Classes Information:

Description: Exploration of the work done in the design professions: architecture, landscape, and planning. Using case studies and environmental exploration, students will begin the process of articulating a personal design vocabulary. This is a project-based course. (Grade or P/NP) Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 1A OR EMLS 10 (formerly ESL 10) or equivalent

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: CSU GE: Transfer Area Effective: Inactive:

IGETC: Transfer Area Effective: Inactive:

CSU Transfer: Transferable Effective: Fall 2004 Inactive:

UC Transfer: Transferable Effective: Fall 2008 Inactive:

CID:

Certificate/Major Applicable:

Both Certificate and Major Applicable

COURSE CONTENT

Student Learning Outcomes:

At the conclusion of this course, the student should be able to:

- 1. Analyze the contributions to environmental design by architects, landscape architects and planners.
- 2. Explain ecological processes and sustainability issues that influence design.
- 3. Express elements of a personal design vocabulary.

Objectives:

At the conclusion of this course, the student should be able to:

- 1. Describe the role of design professionals in the context of the creative process.
- 2. Evaluate the impact of social, climatic and technical elements influencing housing design and forms.
- 3. Analyze the role of landscape in building design.
- 4. Analyze the role of the urban planning context in the development of design.
- 5. Examine ecological processes and sustainability issues that influence design.
- 6. Express elements of a personal design vocabulary based on historical precedent, observation, personal experience and the creative process.

Topics and Scope:

- I. The Creative Process for Design Professionals
- II. What Architects Do and How They Do It
- III. Architectural Design Context
 - A. Cultural context
 - 1. Communities and regions
 - 2. Planning ordinances
 - B. Impact of climate
 - C. Common building materials
 - D. Methods of construction
 - E. Building technology

- F. Function of housing
 - 1. Individual and multiple units
 - 2. Historic
 - 3. Contemporary
- G. Sustainability issues in architecture
- IV. What Landscape Architects Do and How They Do It
- V. Landscape Design Context
 - A. Natural environment
 - 1. Historic
 - 2. Contemporary
 - B. Relationship of buildings to landscape
 - C. Role of the garden
 - 1. Historic
 - 2. Contemporary
 - D. The landscaped environment
 - E. Sustainability issues in landscape architecture
- VI. What Planners Do and How They Do It
- VII. Planning Context
 - A. Developing the general plan
 - B. How cities are organized
 - C. Role of zoning ordinances
 - D. Location of city functions and impact on city form
 - 1. Historic
 - 2. Contemporary
 - E. Sustainability issues in planning
- VIII. Integrated Design Context
 - A. Concept of ecological zones and importance of biodiversity
 - 1. Historic
 - 2. Contemporary
 - B. Principles of ecological restoration
 - C. Energy efficiency and design
- IX. Developing and Expressing a Personal Design Vocabulary
 - A. Elements of a personal design vocabulary
 - 1. Historical precedent
 - 2. Observation
 - 3. Personal experience
 - 4. Creative process
 - B. Expressing a personal design vocabulary

Assignment:

- 1. Research journal of findings and personal observations
- 2. Research papers and project reports (2 3) of at least 2-3 pages each
- 3. Design vocabulary sketchbook
- 4. Reading: 20-30 pages per week
- 5. Midterm
- 6. Final exam or final project presentation

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.

Research papers and project reports

Writing 40 - 70%

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

None

Problem solving 0 - 0%

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.

Midterm; final exam and project presentation

Exams 15 - 45%

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

Participation, research journal and design vocabulary sketchbook

Other Category 15 - 25%

Representative Textbooks and Materials:

Nature, Landscape and Building for Sustainability. Saunders, William S. University of Minnesota Press. 2008 (classic)
Introduction to Architecture. Ching, Francis D. K. Wiley. 2012 (classic)
Instructor-prepared materials