ARCH 12 Course Outline as of Fall 2024

CATALOG INFORMATION

Dept and Nbr: ARCH 12   Title: INTRO ENVIRONMENT DESIGN
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