Subject:	SUST
Course Number:	289
Descriptive Title:	Landscape and Urban Design Principles
Division:	Industry and Technology
Department:	Sustainable Design
Course Disciplines:	Architecture
Catalog Description:	This course introduces principles and the application of landscape architecture and urban design in the context of Southern California. With a focus on sustainable design strategies, students will learn about spatial design and sequencing, site preparation and planting design, and place-making. Students will also explore the role ecological factors have in shaping our built and natural environments. Topics such as resiliency, regeneration, habitat restoration, and place-making will engage students in the practice of site analysis, mapping, diagramming, and master planning to represent design solutions that address some of the most pressing ecological challenges we face today.
Prerequisite:	Sustainable Design 181 and Sustainable Design 249 with a minimum grade of C
Co-requisite:	
Recommended Preparation:	
Enrollment Limitation:	
Hours Lecture (per week):	2
Hours Laboratory (per week):	4
Outside Study Hours:	4
Total Course Hours:	108
Course Units:	3
Grading Method:	Letter Grade only
Credit Status:	Credit, degree applicable
Transfer CSU:	Yes
Effective Date:	
Transfer UC:	Yes
Effective Date:	
General Education ECC:	
Term:	
Other:	
CSU GE:	
Term:	
Other:	
IGETC:	

Term:	
Other:	
CalGETC:	
Term:	
Other:	
Student Learning Outcomes:	**SLO #1 – Site Design** The successful Landscape Design student will expand upon the process of studying a sites physical, social and environmental characteristic in order to make informed decisions about the concept and design features. **SLO #2 – Convey Landscape Principles** The successful Landscape Design student will be able to design and present a project, including its concepts and details, using standard presentation graphics such as Plans, Sections, Elevations and 3D Models. Along with advanced research techniques using maps, diagrams and data. **SLO #3 – Sustainable Practice** The successful Landscape Design student will be able to distinguish, articulate and present sustainable methods, systems and programs rather than passive green open spaces.
Course Objectives:	1. Explore alternatives to traditional green open spaces such as parks. 2. Utilize industry standard terminology in landscape design. 3. Organize and strategically utilize landscape materials to support design ideas. 4. Develop skills for field/site research. 5. Transform data into design ideas and graphics. 6. Articulate and graphically present landscape design solutions.
Major Topics:	I. **Instructional Content (36 hours, lecture)** A. Introduction to Landscape and Urban Design (lecture, 2 hours) 1. 1. Overview of open space and public realm design 2. Identifying pertinent issues 3. Landscape Terminology B. Components of a Site Analysis (Lecture, 4 hours) 1. The role of the site visit 2. Site observation study 3. Site inventory documentation 4. Understanding community context C. Concepts of a Landscape Design Plan (Lecture, 8 hours) 1. Development of concept and design narrative 2. Development of potential program and systems 3. Integration of urban and site circulation 4. Establish design strategy utilizing softscapes, hardscapes and planting

5. Organization of basic building structures

D. Identify Users and Stakeholders (Lecture, 2 hours)

1. Survey of local demographics
2. Establish groups or wide audiences
3. Understanding of flexible spaces and multi-use spaces

E. Ecological Processes (Lecture, 4 hours)

1. Determining Hydro zones and using Water Use Classification of Landscape Species (WUCOLS)
2. Defining soil types
3. Leveraging natural features

F. Landscape Design Process (Lecture, 6 hours)

1. Site analysis diagrams
2. Site program and system diagrams
3. Concept sketching
4. Creating a narrative

G. Landscape Materials and Technology (Lecture, 6 hours)

1. Planting Palette – water usage, native types and availability
2. Hardscape Palette – design features, systems and availability
3. Softscape Palette – role, growth, and maintenance

H. Concept Design - Graphic Techniques (Lecture, 4 hours)

1. Architectural Two Dimensional (2D) drafting and drawings
2. Illustrative drawings and renderings
3. Diagrams and data graphics
4. Three Dimensional (3D) modeling and perspective renderings

II. **The 'Learning by Doing' Principle (72 hours, Lab)**

A. Individual-centered focus tasks

1. Individual project development and evaluation
2. Instructor-to-student and peer-to-peer interactions
3. Instructor desk critiques
4. Exercise engagement based of lecture content
5. Digitally drawing to explore ideas

B. Group collaboration activity

1. Small group pin-ups
2. Developing/ testing of design principals
3. Participation in group tasks and projects

Total Lecture Hours:	36

Total Laboratory Hours:	72
Total Hours:	108
A.1. Primary Methods of Evaluation (Part 1 - CCN courses only):	
Primary Method of Evaluation:	2) Problem solving demonstrations (computational or non-computational)
Typical Assignment Using Primary Method of Evaluation:	Create a site layout located in USDA's Planting Zone 24, that identifies a planting palette to demonstrate performative factors such as the use of native or naturalized species, sun and shade analysis, and plant specifications to determine size appropriate to the site. Submit site layout to the instructor.
Critical Thinking Assignment 1:	**Street Design Exploration:** Using a pre-determined project area, identify existing conditions, circulation patterns, and user groups for a predesign study that proposes alterations that increases public safety and better activates the street. Submit presentation board to the instructor.
Critical Thinking Assignment 2:	**Site Planning and Design:** Using the data derived from the site analysis, develop a site landscape plan with integration of ecological systems that address both programmatic and regulatory requirements and is responsive to the site. Submit presentation board to the instructor.
Other Evaluation Methods:	Class Performance, Completion, Presentation
If Other:	
Instructional Methods:	Demonstration, Discussion, Lab, Lecture, Multimedia presentations
If other:	
Work Outside of Class:	Skill practice
If Other:	
Up-To-Date Representative Texts:	Design Workshop. Landscape Architecture Documentation Standards: Principles, Guidelines, and Best Practices. 1st Edition. 2015. (Discipline Standard) William H. Whyte. Social Life of Small Urban Spaces. 8th edition. 2001. (Discipline Standard)
Alternative Texts:	
Required Supplementary Readings:	
Other Required Materials:	Handouts prepared by the instructor
Requisite	Prerequisite
Category	sequential
Requisite course:	Sustainable Design 249

Requisite and Matching skill(s): Bold the requisite skill. List the corresponding course objective under each skill(s).	**Understand the principles of sustainable practices in site development.** SUST 249 - Describe and discuss principles and strategies of sustainable and regenerative practices in site and landscape development.
Requisite Skill:	
Requisite Skill and Matching skill(s): Bold the requisite skill(s). if applicable	
Requisite course:	
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. List the corresponding course objective under each skill(s). if applicable	
Enrollment Limitations and Category:	
Enrollment Limitations Impact:	
Course Created by:	Marc Yeber
Date:	10/30/2024
Original Board Approval Date:	03/24/2025
Effective Term:	FA 2025