

Number & Title of Course: EDES 123 Principles of Environmental Design.

Course Description: Introduction to the individual's and societal relation with the designed and built environment, and its impact on natural resource consumption, identity, behavior, community, and human health, safety, and general well-being. Study of the individual and role of design in community development and in making and preserving culture. Diverse perspectives including designers, engineers, governing bodies, and individual users. 2 lectures, 2 discussions. Fulfills GE D4.

Program Goals & Course Outcomes

- Think critically and creatively about architectural problems.
 - Ability to raise clear and precise questions, use abstract ideas to interpret information, consider diverse points of view, reach well-reasoned conclusions, and test alternative outcomes (A2).
- Use a diverse range of communication skills including writing, speaking, drawing, and modeling to think about and convey architectural ideas.
 - Ability to write and speak effectively (A1).
- Understand the production of architecture in relation to the larger world of knowledge — the arts and humanities as well as the STEM disciplines.
 - Accessing interdisciplinary knowledge networks that can help to create more creative and comprehensive solutions.
- Work productively with diverse groups of people including design professionals, clients, and users.
 - Understanding stakeholder relationships in the design process and the architect's role in reconciling stakeholder needs (D1).
 - Ability to collaborate at every stage in the design and construction process and to exercise appropriate leadership (D1).
- Use architectural knowledge and skills to make a positive contribution to society.
 - Understanding the potential applications of environmental design to improve standards of living.
- Make reasonable decisions based on an architectural understanding of ethics, diversity, and sustainability.
 - Understanding multiple narratives in the history of architecture and cultural norms in a variety of settings (A7).
 - Understanding the diverse needs, values, behavioral norms, physical abilities, and social and spatial patterns that characterize different cultures and individuals (A8).
- Engage in lifelong learning as a professional.
 - Ability to gather, assess, record, and comparatively evaluate relevant information (A3).

Student Performance Criteria Addressed

A1 Professional Communication Skills

A3 Investigative Skills

A8 Cultural Diversity and Social Equity

D1 Stakeholder Roles in Architecture

Topical Outline

Body/spatial perception and representation (20%)

Community, diversity, and collaboration (20%)

Health, safety, and welfare (20%)

Materials, systems, and technology (20%)

Interdisciplinary communication (10%)

Utopias (10%)

Prerequisites: NA.

Textbooks/Learning Resources: variable selection of online resources including videos, articles, and white papers.

Offered: Fall, Winter, and Spring annually.

Faculty Assigned: Michael Lucas (Associate Dean), Jennifer Shields (Assistant Professor), and Ellen Burke (Assistant Professor, Landscape Architecture).