

ARC 381: ENVIRONMENTAL DESIGN I: SITE PLANNING 2 credits

Course Description: The fundamentals of site planning with reference to the historical, environmental, climatic, technologic, and legal aspects in site design. Introduction to use of surveying equipment and the preparation of a site design with emphasis on the principles of sustainable design. Restricted to major. Studio Fee: \$24.

Course Goals and Objectives:

Upon completion of this course, the student will:

1. Develop an understanding of the historical references and sustainable design in site planning.
2. Develop an understanding of the environmental aspects of site design including inventory, geology, vegetation, hydrology, and climate.
3. Become familiar with the fundamentals and terminology associated with topography, grading, and water in site planning.
4. Develop an understanding of the impact development has on the environment.
5. Be introduced to reading legal descriptions of land and develop an understanding of the zoning process.
6. Become acquainted with several types of surveying equipment and use such
7. Complete a site design project comprising a site analysis, site plan, and site details.
8. Develop an understanding of the principles of sustainable design and their application in site design.

Student Performance Criteria:

B.3: Sustainability **B.4:** Site Design

Topical Outline	Percentage of time
A. Historical references	5%
B. Environmental aspects	20%
C. Fundamentals of topography	10%
D. Site planning	20%
E. Surveying equipment	10%
F. Legal description of land	5%
G. Design project	30%

Textbooks:

Brooks, Gene R. *Site Planning, Environment, Process, and Development*, Englewood Cliffs, NJ: Prentice Hall, Inc., 1988.
Recommended: Brown, G. Z. and Mark DeKay. *Sun, Wind, and Light: Architectural Design Strategies*. 2nd ed. Hoboken, NJ: John Wiley & Sons, Inc., 2000.

Offered: Fall semester **Faculty:** Heckman