

Architectural Design and the Landscape

ARCH373, Sections E1, E2, E3, E4, E5, Fall, 2012

“The world will not evolve past its current state of crisis by using the same thinking that created the situation.”

Albert Einstein

Course Information

Class Days/Time: M W F 1:00 – 4:50 pm, CREDIT 5 hours
 Classroom: Architecture Room 200, Select Fridays 1:00 pm Architecture Room 120
 Pre/Co-Requisites: ARCH 272
 Course Coordinator/5 sections: Dearborn

Course Description

This studio focuses on the building in a landscape setting and creation of place. Students are introduced to schematic building design and site planning issues, including accessibility, principles of energy efficient building design, human-environment relationship issues, and architectural design and presentation methods. Some field trips are required.

Semester Projects – Completed on Sites at the U of I’s Robert Allerton Park, Monticello, IL

- 15% Project 1 - Interpretive Ecological Rest Area – Completed Individually
- 30% Project 2 – Space for Performance – Completed Individually
- 40% Project 3 – A Summer Institute for the Arts – Completed Individually
- 15% Sketchbook with Digital and Analogue Folder – Completed Individually

Student Learning Objectives

This course is the third in a series of required undergraduate architectural design studios. This course is designed to create opportunities for new thinking that lead to innovative and creative spatial expressions for the new millennium by providing you, the student, with:

- 1) A greater understanding of design methodology, vocabulary, principles, and the fundamental complex relationship between the built and natural environment.
- 2) A self-awareness, comprehension and assurance of design as a problem-solving process
- 3) Increased awareness of the importance of incorporating the needs of people in the design process
- 4) Increased awareness of the relationship of structure to form as part of design and the design process
- 5) The ability to demonstrate in your problem solutions, the successful application of theory/concept as technique
- 6) The ability to analyze precedents and understand their potential to inform design methodology.
- 7) Proficient skill in drafting, sketching, layout, diagramming, modeling and in graphic, oral, and written presentation

Course Content Learning Outcomes

Upon successful completion of this course, individually, you will be able to:

1. Systematically **observe** and **analyze** the built and natural context in order to understand the relationships of architecture, the landscape, and the broader environment by using professionally accepted techniques to accomplish:
 - a. Analysis of existing precedents, both built and proposed
 - b. Analysis of physical, social, and historical aspects of site and context
 - c. Analysis of climate
2. Graphically and orally present precedent, site and context, and climatic analysis types using means accepted within the architectural profession to successfully communicate these analyses as the basis for design thinking and ideation.
3. Understand a given program for a small public building (max 15,000 sq.ft.) and site, and develop a detailed programmatic response and appropriate proximities to satisfy programmatic necessities.
4. Understand and develop a site plan that responds to the technical and aesthetic requirements of given project site and program in a way that achieves primary project goals.

5. Develop a building and site response that meets at least the minimum legal requirements for human health, safety, welfare, and access for persons with disabilities.
6. Develop a building and site response that incorporates principles of energy efficient design
7. Develop a design project in sufficient detail to demonstrate an understanding of structure and materiality as integral parts of design site and building response.
8. Represent your work, orally and through analogue and digital drawings and models in order to successfully communicate your design concept and its development to a professional audience of faculty, students and architects.

Required Texts/Readings/Equipment

Ecological Design 10th Anniversary Edition, Authors Van der Ryn and Cowan, Publisher: Island Press.
ISBN 978-1-59726-141-8

Structure Systems, Author Engel, Publisher: Htje Co. ISBN 978-3-7757-1876-9

Other Readings

Required readings as assigned by instructors to provide background for specific assigned design projects will be available digitally through Compass 2g site and/or U of I Box