

Fall 2024 Studio Description

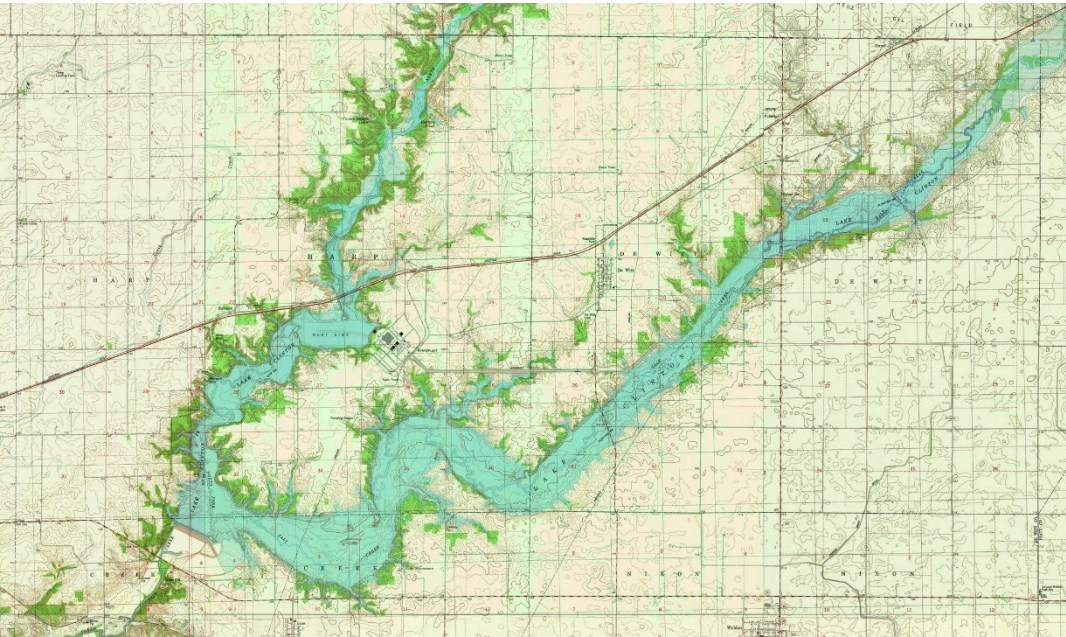
ARCH 575: Integrative Architecture Design Studio

Section E2 / Mondays & Wednesdays / 1:00 to 5:50 PM

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*This studio satisfies the
M.Arch degree
requirement for
Integrative Architecture
Design Studio.*



Studio Project: Illinois Rowing Center + Community Boathouse

Project Site: Clinton Lake, Illinois

ARCH 575 COURSE CATALOG DESCRIPTION

Schematic design and development of a public building focusing on the integration of environmental, structural, and building envelope systems, while also addressing issues of accessibility, life safety, environmental stewardship, and site conditions. 6 credit hours.

Prerequisites: ARCH 536 and ARCH 537.

PROJECT DESCRIPTION

This Integrative Architecture Design Studio will be focused on how the architectural elements of structure and skin can work together to create unique, productive experiences of space and light in a high-performance public building. We will also study ways of engaging architecture with nature, topography, and climate.

The vehicle for this study will be the design of a new 25,000 sq.ft. boathouse for the Rowing Club at the University of Illinois, incorporating spaces for training, boat storage and maintenance, and lake access. The facility will provide a variety of spaces for student athletes and coaches as well as a community boathouse for the general public. The project site is located at Clinton Lake, approximately 35 miles west of Urbana-Champaign. One field trip to visit and document the site is planned early in the semester.

Following initial analysis of site, climate, and precedent buildings, students will work in teams of two during the semester-long design project. With equal emphasis on design excellence and the technical components of integrative design noted in the Course Catalog description, our ultimate goal is to develop design proposals that are both conceptually and technologically rigorous.

The studio process will be based on experimentation with form, program, structure, and enclosure, developed through iterative design studies seeking to integrate programmatic elements with the local climate and natural context. Students will be introduced to energy and daylighting analysis as an integral part of a climate-responsive design process.

Projects will be developed and presented in multiple media: large-scale sections and detailed plans, digital and physical modeling at a range of scales, and diagrams and details of structure, envelope, and environmental systems.

Image: USGS Map of Clinton Lake, Illinois