

Number & Title of Course: ARCH 451 Architectural Design 4.1.

Course Description: Problems of increasing architectural complexity involving the integration of architectural theory, design processes, and building systems. 5 laboratories.

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).
 - Ability to examine and apply the fundamental principles present in relevant precedents (A6).
 - Ability to respond to site characteristics in the development of a project design (B2).
- Use a diverse range of skills including writing, speaking, drawing and modeling to think about and convey architectural ideas.
 - Ability to write and speak effectively (A1).
 - Ability to use representational media appropriate for public and professional audiences (A1).
- 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

A2 Design Thinking Skills

A3 Investigative Skills

A6 Use of Precedents

A7 History and Global Culture (off-campus programs)

A8 Cultural Diversity and Social Equity (off-campus programs)

B2 Site Design

Topical Outline

Architectural theory (5%)

Precedent studies (5%)

Site and program analysis (10%)

Architectural design (50%)

Visual communication and presentation (30%)

Prerequisites: ARCE 316, ARCH 342, ARCH 353.

Textbooks/Learning Resources: NA.

Offered: Fall annually.

Faculty Assigned (on campus): Andrew Goodwin (Lecturer), Brian Kesner (Emeritus Professor), Kent Macdonald (Lecturer), and Jonathan Reich (Professor).