

Number & Title of Course: ARCH 353 Architectural Design 3.3

Course Description: Continuation of ARCH 352 plus the development and exploration of architectural theories, building systems, and design concepts and processes involved in creating large-scale architecture with an emphasis on implications of sociocultural issues and comprehensive/life safety systems integration as building form generators. 1 Lecture, 4 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).
- 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).
- Understand and apply the technical aspects of architecture, while considering the environmental impact of design decisions.
 - Ability to prepare a comprehensive program for an architectural project (B1). Ability to respond to relevant codes and regulations while reflecting life-safety and accessibility standards (B3).
 - Ability to make technically clear drawings, models, and outline specifications (B4).
 - Ability to demonstrate the basic principles of structural systems as well as their selection and application (B5).
 - Understanding the selection and application of building envelope systems (B7)
 - Understanding the selection and application of building materials and assemblies (B8).
- Synthesize a wide range of variables that contribute to an integrated design solution.
 - Ability to make integrated decisions across multiple systems and variables in the completion of a design project (C2).
 - Ability to make design decisions within a complex architectural project while considering environmental stewardship, technological documentation, accessibility, site conditions, and life safety, as well as environmental, structural, and building envelope systems and assemblies (C3).

Student Performance Criteria Addressed

A1 Professional Communication Skills
 A2 Design Thinking Skills
 B1 Pre-Design
 B3 Codes and Regulations
 B4 Technical Documentation
 B5 Structural Systems
 B7 Building Envelope Systems and Assemblies
 B8 Building Materials and Assemblies
 C2 Integrated Evaluations and Decision-Making Design Process
 C3 Integrative Design

Topical Outline

Site and program analysis (10%)
 Design concept (20%)
 Systems integration (35%)
 Visual communication and technical documentation (35%)

Prerequisites: ARCH 352, ARCH 307. Corequisite with ARCH 342

Textbooks/Learning Resources: varies by instructor.

Offered: Spring annually.