

Number & Title of Course: ARCH 351 Architectural Design 3.1

Course Description: Continuation of ARCH 253 plus the development and exploration of architectural theories, building systems, and design concepts and processes involved in creating architecture with an emphasis on implications of the program and space planning issues as building form generator. 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).
 - Ability to examine 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).
- Understand and apply the technical aspects of architecture, while considering the environmental impact of design decisions.
 - Ability to design sites, facilities, and systems that respond to relevant codes and regulations while reflecting life-safety and accessibility standards (B3).
 - Understanding the selection and application of building materials and assemblies (B8).

NAAB Student Performance Criteria Addressed

A1 Professional Communication Skills

A2 Design Thinking Skills

A6 Use of Precedents

B2 Site Design

B3 Codes and Regulation

B8 Building Materials and Assemblies

Topical Outline

Site and program analysis (10%)

Precedent studies (5%)

Design concept (30%)

Systems integration (30%)

Visual communication and technical documentation (20%)

Architectural theory (5%)

Prerequisite: ARCE 212, ARCH 253, ARCH 207, and PHYS 122/132. Corequisite with ARCH 341.

Textbooks/Learning Resources: varies by instructor.

Offered: Fall annually.

Faculty assigned: Don Choi (Professor), Dale Clifford (Assistant Professor), Thomas Fowler (Professor), Andrew Goodwin (Lecturer), Tom Jones (Professor), Stephen Lee (Lecturer), Bryan Shields (Lecturer), Umut Toker (Associate Professor), Stacey White (Lecturer), Barry Williams (Lecturer), Greg Wynn (Lecturer), and Margarida Yin (Lecturer).