

Number & Title of Course:

ARCH 5550 Comprehensive Design Studio, 6 credits

Course Description:

Through the design of a large building (15,000 – 25,000sf), this course integrates the gamut of pre-design and design criteria, systems, and technology; emphasizing life safety, sustainability, and context as design determinates.

Course Goals:

- The primary goal is to produce a comprehensive design solution integrating a range of concerns including the site, context, building function and organization, building systems, and sustainable principles.
- To develop a solution respectful of societal and cultural influence specific to place and time.

Course Objectives:

- At the conclusion of this course students should be able to apply sound design principles and an understanding of the complementary relationship of interdisciplinary building systems and technology.
- At the conclusion of this course students should be able to apply and coordinate knowledge of materials and building systems at a variety of levels of detail.
- At the conclusion of this course students should be able to produce technically clear and accurate drawings and models using 2-D and 3-D computer software.

Student Performance Criteria addressed:

A.6. Use of Precedents
B.1. Pre-Design
B.3. Codes and Regulations
B.5. Structural Systems
C.2. Integrated Evaluations + Decision-Making Process
C.3. Integrative Design

Topical Outline:

Comprehensive Design Solution (100%)

Prerequisites:

ARCH 5500 Architecture Design Studio: Community; ARCH 5010 Architecture Design Seminar 1: Small Urban Context;
Co-Requisite – ARCH 5060 Architecture Design Seminar 2: Sustainability.

Textbooks/Learning Resources:

The Architect's Studio Companion; 6th Edition; Allen, Iano; Wiley; 2017.
Building Construction Illustrated; Ching; Wiley; 2014.
Architectural Graphic Standards Student Edition; Ramsey, Sleeper; Wiley; 2008.
Building Codes Illustrated; 4th Edition; Ching/Winkel; Wiley; 2012.
Various texts on design, theory, and planning (as required).
2-D/3-D computer software, Sketch Book, Modeling Supplies

Offered:

Spring Semester, Annually

Faculty assigned:

Philip Freeman, Associate Professor of Architecture, (Spring 2017)
Robert L. Kelly, Architect, PhD, Associate Professor, (Spring 2016).