

**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*; 6<sup>th</sup> Edition; Allen, Iano; Wiley; 2017.  
*Building Construction Illustrated*; Ching; Wiley; 2014.  
*Architectural Graphic Standards Student Edition*; Ramsey, Sleeper; Wiley; 2008.  
*Building Codes Illustrated*; 4<sup>th</sup> 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