

Number & Title of Course: ARCH 242 Architectural Practice 2.2 (lecture component).

Course Description: A continuation of ARCH 241 with an emphasis on the fundamental aspects of construction systems, life safety, accessibility, project delivery, and professional responsibilities. 2 lectures, 2 activities.

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).
- 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).
 - Ability to make technically clear drawings, models, and outline specifications (B4).
 - Understanding the selection and application of building envelope systems (B7).
 - Understanding the selection and application of building materials and assemblies (B8).
- Understand business principles for the practice of architecture.
 - Understanding the methods for selecting consultants and assembling teams; identifying work plans, project schedules, and time requirements; and recommending project delivery methods (D2).
 - Understanding the architect's responsibility to the client and the public as determined by regulations and legal considerations (D4).

Student Performance Criteria Addressed

B3 Codes and Regulations
 B4 Technical Documentation
 B7 Building Envelope Systems and Assemblies
 B8 Building Materials and Assemblies
 D2 Project Management
 D4 Legal Responsibilities

Topical Outline

Technical documentation (5%)
 Planning and building codes (10%)
 Accessibility (5%)
 Professional roles and responsibilities (10%)
 Construction systems (10%)
 Construction principles—structural, thermal, and moisture protection (10%)
 Construction assemblies—foundations, walls, and roofs (40%)
 Case studies (10%)

Prerequisites: ARCH 241. Corequisite with ARCH 252.

Textbooks/Learning Resources

Alread, Jason, et al. *Design Tech*. New York: Routledge, 2014.
 Bell, Victoria Ballard, and Patrick Rand. *Materials for Design*. New York: Princeton Architectural Press, 2006.
 Bell, Victoria Ballard, and Patrick Rand. *Materials for Design 2*. New York: Princeton Architectural Press, 2014.
 Ching, Francis D. K., et al. *Building Construction Illustrated*. Hoboken: Wiley, 2008.
 Ching, Francis D. K., et al. *Building Codes Illustrated*. Hoboken: Wiley, 2012.

Offered: Winter annually.

Faculty Assigned: Robert Arens (Professor), Kent Macdonald (Lecturer), and Stacey White (Lecturer).