

ARCH 341 ARCHITECTURAL PRACTICE 3.1

2 Units, Required Lecture/Activity Course, Fall Quarter

DESCRIPTION:

Concepts, methods and processes pertaining to the detailing and construction of masonry, steel, concrete and combination structures.
2 lectures, 2 activities.
Prerequisites: ARCH 242 and ARCH 253. Co-requisite: ARCH 351.

LECTURE:**OBJECTIVES:**

The student will:

- Become familiar with the performance and detailing requirements of typical exterior building components, connections and transitions in steel, masonry and concrete construction
- Become familiar with site design issues, including parking, site access, grading and drainage issues
- Become familiar with available resources and processes for design development decision-making.
- Become familiar with basic code requirements essential to the health, safety, and welfare of the public.
- Be able to estimate the size of structural members, floor and roof systems for the purpose of more accurate design development.
- Become familiar with the impact that the production of design development documents has on the entire building process

CONTENTS:

Lectures on the following topics; studio problems designed to allow application of lecture materials.
Architectural services, design development, resources, the CSI.
Site/grading plans, zoning, parking and grading standards.
Building and site, foundation systems, criteria for selection.
Building wall envelopes, factors to consider in planning and selection of components.
Wall/floor detail development, factors to consider in assembly and detailing.
Roof/wall development, factors to consider in assembly and detailing
Opening in exterior envelopes, detail concerns.

REQUIREMENTS & INSTRUCTIONS:

REQUIRED TEXT

The Architect's Studio Companion, Allen

Reference Text: Architectural Graphic Standards, Ramsey and Sleeper; Buildings at Risk: Seismic Design Basics for Practicing Architects; California State Accessibility Standards – Interpretive Manual, OSA; Fundamentals of Building Construction, Allen; Uniform Building Code, ICBO, 1997, Volumes 1 & 2; Architectural Detailing, Allen

REQUIREMENTS & INSTRUCTIONS:

The activity portion of the course will involve exercises covering site planning and grading, framing, wall section and detail design development in steel, concrete and masonry construction and the design development of other key building features.

METHODS of EVALUATION:

Three to four multiple choice quizzes and a final multiple choice and graphic open book/note exam are given in the lecture portion of the course. 50% (quizzes – 50%...Final 50%) of the grade from this lecture course and 50% from studio course

ACTIVITY:**OBJECTIVES:**

The student will integrate:

- Basic building components – envelope, structure, circulation, and site
- Basic code requirements essential to the health, safety, and welfare of the public

CONTENTS:

Design development of design studio projects (ARCH 351 and ARCH 341 lecture).

REQUIREMENTS & INSTRUCTIONS:

The activity course is 50% of the grade for ARCH 341 (and ARCH 341 lecture is 50%).

Evaluations are intended to reflect the faculty's judgment of: student competence in, and an obvious improvement to, their ability to create and analyze appropriate Architecture.

Observable and measurable knowledge, skills, working methods, reasoning, and analytical abilities are evaluated in accordance with those noted by the individual professors charged with teaching the class.

Subjective aspects critical to the design process, such as values, appearance, appropriateness, and so forth, are subject to both criticism and judgment by the individual professors charged with teaching the class. Students are encouraged to develop their own bases for criticizing the work, and, are required to do so in classes. The development of the ability to criticize in a reflective, rigorous, and constructive manner is seen as a fundamental part of analysis, theory building, and for developing a basis for making professional judgments.