

**ARCH 242 ARCHITECTURAL PRACTICE 2.2**

4 Units, Required Lecture/Activity Course, Winter Quarter

**DESCRIPTION:**

Continuation of ARCH 241 with an emphasis on the concepts, methods, processes, detailing and documentation of wood construction.  
2 lectures, 2 activities.  
Prerequisite: ARCH 241. Co-requisite: ARCH 252

**LECTURE****OBJECTIVES:****ACTIVITY****OBJECTIVES:**

Students learn the fundamentals of Architectural drafting and lettering and the standard conventions and symbols of the building industry. Students also learn about the evolution of drafting materials and techniques and present day systems-drafting methods. It is hoped that students will refine and improve these skills and will continue to use them in all courses that include graphic presentation in their coursework.

Students learn about a process or sequence which is used to systematically represent three-dimensional objects in a two-dimensional format (i.e., a logical method to follow to get the building on paper). They also learn about industry standards for the organization, coordination, and cross referencing of a set of working drawings. It is hoped that students will carry this information over to ARCH. 341 and 342 and all subsequent courses in which the students are charged with assembling a set of contract documents.

Students learn about the technical aspects of "Wood Frame Construction" They also learn about the integration of the above structural framing systems with a variety of foundation types, wall coverings, doors, fenestration and roofing. Students are also exposed to the principles of topographical grading and regrading to provide adequate site drainage. The U.B.C. is also introduced to the students at this time.

Students will carry this information to areas of third year and fourth year practice and design where the integration of wood framing is required.

**CONTENTS:**

Outline:  
Drafting Exercises (Weeks 1 and 2) - Develop necessary skills in lettering and line work  
Lettering practice -Substantial out of class practice until a competent level of speed and appearance is attained.  
Line Work-Exercise should give experience in various line weight and values using drafting equipment. Proper sheet layout included in this exercise.  
Site Topography and Drainage  
Develop necessary skills in contour mapping a plot of land.  
Develop necessary skills to insure the proper surface drainage when a structure is placed on the ground on a plot of land.  
Exercises: (Week 2) A model site can be built by student groups in the form of a "Sand Box". This provides easy visual understanding of topography and drainage problems.  
Construction Documents  
Introduce a sequential process of production of documents.  
Develop the necessary understanding of wood frame construction.  
Exercises: (Weeks 4-- 10)  
Preliminaries -- A short Sketch problem of a very simple two story structure, including brief outline specification.  
Working drawings - A complete set of drawings is developed using proper sheet layout and space for all required drawings.  
Then a drawing princess is begun. During the process, at least two (2) Check Betsy are printed and marked for corrections.

**REQUIREMENTS & INSTRUCTIONS:****REQUIRED BOOKS :**

Professional Practice of Architectural Working Drawings, Wakita & Linde  
Architectural Graphic Standards, Ramsey -- Student Edition  
Uniform Building Code, latest edition

**RECOMMENDED BOOKS:**

National Forest Products Pamphlets #1, 4 and 5. Write for them to: N.F.P., 1619 Massachusetts Ave, Washington, D.C. 20036  
Wood Frame House Construction, revised edition by Anderson and Winslow, Craftsman Book Company  
Minimum Student Materials - Drawing board and basic drafting tools, paper products (tracing, board, etc.) as required.  
Method of Instruction and Evaluation - Instruction is carried on by a group lecture utilizing audio visual support and sample presentations. A laboratory then augments the lecture and allows for close student/instructor interaction for the implementation of the exercises.