

COURSE OUTLINE

ARCHT 160

AutoCAD for Architecture & Interior Design

9:00 am-1:50 pm Saturdays, Room M-223

Instructor: Jason Oliver, LEED AP BD+C

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Course Description:

Arch-160 is a Computer Aided Drafting class developed to teach students how to utilize AutoCAD Architecture 2010, the most used CAD software internationally, in the development of their graphic communication skills through the development of a simple set of drawings. The course will cover familiarization with the most popular used commands and features, such as drawing, modifying and organizing objects; dimensioning, and developing symbol libraries, external references, paper space and model space modes, and file path structure through the use of directories.

Course Objective:

The course objective is to give students a solid understanding of software's various commands and their performances. The course also focuses on simplifying the complicated issues relevant to drafting in electronic environment. Students will work on various exercises that allows them to develop skills to operate the software effectively and in a very short period of time. The exercises are structured to start with the most basic commands such as "LINE" and "ERASE" and covers as the course progresses functions such as "VIEWPORTS", "BLOCKS" and "XREF". These exercises conclude by drawing an architectural floor plan, reflected ceiling plan, sections and elevations of a single family one story residence. The first part of each class session will typically be allocated for lectures and hands on practice during the lecture and the second part of the class will be dedicated to practice, questions and answers with each individual student. The Student Learning Outcomes for this class will result in the student being able to produce a set of 2-D CAD drawings of a small residential home consisting of floor plan, roof plan, site plan, electrical plan, elevations, details and section drawings.

1. Complete a written examination concerning a complete CAD system to 70% accuracy. (hardware-terms and definitions)
2. Save, load and delete graphic files during laboratory without error.
3. Produce industry level two dimensional drawings based on instructions/guidelines given in class to 70%.
4. Plot/print assignments for submission to instructor based on guidelines in laboratory manual.

5. Interpret instructions/sketches and plan projects from start to finish based on drafting conventions common to industry.
6. Correctly answer objective and essay questions about AutoCAD® software and computer terms to 70% accuracy.

Course Format:

Students will be required to be present and on time at ALL LECTURE MEETINGS. An absence can be fatal to student's comprehension of further topics. Lectures will be given through-out the class with students working simultaneously. Assignments and Reading will be given weekly relative to the topics discussed in class. After the second meeting, students will be working on the semester project, which will require additional time outside of class time. This project will prepare students for the Final exam which will be a completed version of the final project due at the end of the class, along with a multiple choice exam.

The College of the Canyons policy regarding Academic Integrity and Plagiarism will be strictly adhered to in this class.

Required Text / Supplies:

“Mastering Autocad Architecture 2010” by Paul F. Aubin
Publisher: Autodesk Press (available at the COC Bookstore)
ISBN-13: 978-1439057292

Flash Drive - 4gb minimum
Architectural Scale

Evaluation:

Evaluation for the course will be based on the followings for all the students:

- 1 - Attendance and participation - 15 %
- 2 - Assignments (Homework and CAD exercises) - 15 %
- 3 - Midterm Exam - 10 %
- 4 - Final Project - 50 %
- 5 - Final Exam - 10 %

*Class attendance and participation are directly related to your success.
Be on time, ask questions, interact with other students and have fun ☺.
You're attending college on your time and now is the best opportunity to establish
yourself as a professional in the way you conduct yourself and the work you produce.*