



West Los Angeles College
Los Angeles Institute of Architecture and Design

Course Syllabus – Fall 2014

WLAC COURSE: ARC 162 – COMPUTER-AIDED DESIGN AND DRAFTING (CSU) 3.00 units

LAIAD Course: ARCH 411B - Intermediate Architectural Drawing 2

PRE-REQUISITE / CO-REQUISITE

Arch 161 – Intro to Computer-aided Architectural Drawing

SCHEDULE / LOCATION

6:00 pm – 8:00 pm M, Th at LAIAD, 3807 Wilshire Bl. Suite 330

FACULTY

William Taylor 310 280 8393 wtaylor@laiad.com

OFFICE HOURS

By Appointment. The instructor is available during business hours for consultation outside of class. Students are encouraged to seek help and bring concerns to the instructor during this time. Please don't hesitate to ask for help or assistance if you need it, or to discuss any concerns you have regarding the class.

COURSE DESCRIPTION

This course is a continuation of ARC 161 presenting studies of AutoCAD for architects focusing on intermediate level Autocad concepts. Includes 3-dimensional modeling in AutoCAD and Rhino.

REQUIRED READING

Mastering AutoCAD 2013 and AutoCAD LT 2013, George Omura and Brian C. Benton, 2012

Other Recommended Resources

Self Paced Tutorials

Downloadable / Viewable at:

<http://www.lynda.com/>

Youtube.com

GOOGLE It

Try Amazon.com or other online book sellers for the best prices on these titles.

COURSE STUDENT LEARNING OUTCOME (SLO)

At end of the course, the successful student will be able to demonstrate digital 3D drafting competency by creating 3D architectural models in Autocad and Rhino.

LEARNING OBJECTIVES

1. Construct a three-dimensional model using CAD software.
2. Create and edit dynamic blocks using CAD software.
3. Create, edit, and employ custom line weight file.
4. Construct and apply annotative text and annotative dimensioning.
5. Recognize and explain BIM and other 3D modeling concepts..

COURSE CONTENT

- Plotting with custom line weights
- Creating pdf files from AutoCAD.
- Combining pdf files in Acrobat. Importing drawings into Illustrator. Concepts regarding vector and raster images.
- Advanced use of external references
- Dynamic blocks.
- Annotative text and annotative dimensions
- Three-dimensional face modeling in AutoCAD and/or Rhino.
- Three-dimensional solid modeling in AutoCAD and/or Rhino.
- Basic commands to create three dimensional models in AutoCAD and/or Rhino.

Complete a three-dimensional model for final project. **JOURNALS**

Each student is required to bring to all classes a hard-bound journal (sketchbook). These journals will form a record of your thoughts and ideas. Faculty may also make sketches and notes in your journal relative to your projects. These journals will be reviewed at the end of the Semester.

EVALUATION GUIDELINES AND PROCEDURES:

1. Students are evaluated for individual progress using the following criteria:
 - A. Development of skills and abilities listed under learning objectives.
 - B. Attendance and contribution to studio, lectures, and field trips.
 - B. Evidence of motivation / perseverance.
 - D. Willingness to explore alternatives and take risks.
 - E. Willingness to accept criticism.
2. In terms of the criteria listed above the design studio activities are weighted approximately as follows:

Studio projects	75% (number of projects may vary)
Attendance and Participation	15%
Instructor Discretion	10%
<u>TOTAL</u>	<u>100%</u>
3. Grades given on LAIAD transcripts will be traditional A,B,C, F grading. No grades of D will be given.
4. Equal Grades will be given on West Los Angeles College Transcripts if student is enrolled at WLAC for credit.
5. Attendance is mandatory. Students missing 25% of classes will be subject to dismissal.
6. **No studio project assignments will be accepted for full credit if late or unfinished.**

TENTATIVE SCHEDULE: Spring 2015

See individual assignments for daily schedule. Homework will be assigned on a daily basis. Attendance is mandatory to all class meetings.

Week	Day	Date	Subject Matter
0	Thur	Feb 5	First Day of Class
1	Mon	Feb 9	No Class – Labor Day
	Thur	Feb 12	Plotting with custom line weights
2	Mon	Feb 16	Desk Crits
	Thur	Feb 19	Creating pdf files from AutoCAD
3	Mon	Feb 23	Desk Crits
	Thur	Feb 26	Advanced use of external references
4	Mon	Mar 2	Desk Crits
	Thur	Mar 5	Desk Crits
5	Mon	Mar 9	Dynamic blocks
	Thur	Mar 12	Desk Crits
6	Mon	Mar 16	Desk Crits

	Thur	Mar 19	Annotative text and annotative dimensions
7	Mon	Mar 23	Desk Crits
	Thur	Mar 26	Three-dimensional face modeling in AutoCAD.
8	Mon	Mar 30	Desk Crits
	Thur	Apr 2	Desk Crits
9	Mon	Apr 6	SPRING BREAK
	Thur	Apr 9	SPRING BREAK
10	Mon	Apr 13	Three-dimensional solid modeling in AutoCAD
	Thur	Apr 16	Desk Crits
11	Mon	Apr 20	Desk Crits
	Thur	Apr 23	Desk Crits
12	Mon	Apr 27	Desk Crits
	Thur	Apr 30	Desk Crits
13	Mon	May 4	Complete a three-dimensional model for final project.
	Thur	May 7	Desk Crits
14	Mon	May 11	Desk Crits
	Thur	May 14	Desk Crits
15	Mon	May 18	Desk Crits
	Thur	May 21	Desk Crits
16	Mon	May 25	Memorial Day – No Class
	Thur	May 28	Presentation work
	Sat	May 30	Final Presentation – All Work Due