



West Los Angeles College  
Los Angeles Institute of Architecture and Design

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## Course Syllabus – Fall 2015

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

*LAIAD Course: ARCH 411B - Intermediate Architectural Drawing 2*

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### PRE-REQUISITE / CO-REQUISITE

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Arch 161, ARC 180 – Intro to Computer-aided Architectural Drawing and Lab

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### SCHEDULE / LOCATION

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

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### FACULTY

Alan Guillen [alan.guillen.arch@gmail.com](mailto:alan.guillen.arch@gmail.com), [aguillen@LAIAD.com](mailto:aguillen@LAIAD.com)

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### 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.

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### COURSE DESCRIPTION

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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.

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### REQUIRED READING

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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.

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### COURSE STUDENT LEARNING OUTCOME (SLO)

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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.

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### LEARNING OBJECTIVES

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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

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1. Plotting with custom line weights
2. Creating pdf files from AutoCAD and/or Rhino.
3. Combining pdf files in Acrobat. Importing drawings into Illustrator. Concepts regarding vector and raster images.
4. Advanced use of external references
5. Dynamic blocks.
6. Annotative text and annotative dimensions
7. Three-dimensional face modeling in AutoCAD and/or Rhino.
8. Three-dimensional solid modeling in AutoCAD and/or Rhino.
9. 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:

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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%
<b>TOTAL</b>	<b>100%</b>
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: Fall 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
0	Thur	Sep 03	Introduction to class, syllabus. Assign content / Assign Project 01.
1	Mon	Sep 07	<b>NO CLASS - LABOR DAY</b>
	Thur	Sep 10	
2	Mon	Sep 04	
	Thur	Sep 17	
3	Mon	Sep 21	
	Thur	Sep 24	
4	Mon	Sep 28	
	Thur	Oct 01	
5	Mon	Oct 05	
	Thur	Oct 08	<b>NO CLASS - LECTURE</b>
6	Mon	Oct 12	
	Thur	Oct 15	
7	Mon	Oct 19	
	Thur	Oct 22	
	Mon	Oct 26	
	Thur	Oct 29	
8	Mon	Nov 02	
	Thur	Nov 05	
9	Mon	Nov 09	
	Thur	Nov 12	
10	Mon	Nov 16	
	Thur	Nov 19	
11	Mon	Nov 23	
	Thur	Nov 26	<b>NO CLASS - THANKSGIVING</b>
12	Mon	Nov 30	
	Thur	Dec 03	
13	Mon	Dec 01	
	Thur	Dec 03	
14	Mon	Dec 07	
	Thur	Dec 10	<b>FINAL PHYSICAL AND DIGITAL DELIVERABLES DUE</b>
15	SAT	Dec 12	<b>ALL SCHOOL FINAL</b>