

INTERIOR
DESIGNERS
INSTITUTE

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Course Syllabus

course: 325 CAD 1

REQUIRED TEXT: Plan Set: Two Story Office Building (A file for printing this document will

be made available to you the first day of class - this document and the

syllabus are required for class every day)

GRADING: Project 100 points

Final 50 points
Notebook 50 points
Quizzes 100 points
Total: 300 points

WORKPRODUCT:

Graded items above are required to be turned in as described in class and will not be returned to the student.

SOFTWARE: AutoCAD Student version

HARDWARE: USB Flash Memory Drive (USB 2.0, 2GB Minimum, any brand)

ETIQUETTE: No food or drink in the lab

SYLLABUS: The syllabus and schedule can be changed at anytime in class

discussion, students are responsible to record and respond to these

changes.

PRINTING:

All printing required for the course is the student's responsibility.

CLASS OVERVIEW:

This lab-based course has been designed to promote an understanding of AutoCAD software and basic construction document production methods.

COURSE OBJECTIVES:

1. To provide an understanding of various AutoCAD commands and how to access them.

- 2. To provide an understanding of primary concepts that guide construction document production.
- 3. To provide in class work time with access to the instructor or teachers aid for questions and answers.

Class Outline

CLASS 1: **Printing:** Lecture: Intro Copying files Print houses **AutoCAD** Groupware or collaborative software Digital format for sharing information with allied disciplines; Mechanical, electrical, plumbing, etc. CLASS 2: [Sheet A1 First and Second Floor Plan]: Lecture: Template Line Measure Zoom & Pan Erase Offset Object snap & Polar tracking Ortho Extend, Fillet & Trim CLASS 3: Lab: draw walls: In Class work on walls Quiz 1 next time CLASS 4: **Construction Documents, Layers:** Quiz 1: Draw walls Lecture: Construction Documents, Section Concept, & Plan Sets Grips & Grips with Object Snap Polyline Layers Line types Selection Windows Lab: draw walls, and layering: CLASS 5:

Quiz 2 next time

CLASS 6:	Insert Blocks:
	Quiz 2: Create walls, and layer
	Lecture: Door and door keys See legend sheet A1 Storefront framing systems Field trip to campus building exterior to see storefront system installed Plumbing fixtures Coordination with plumbing engineer for drain, and vent locations Use sheet A1.2 for a guide to design location of toilet fixtures and plumbing accessories Circulation systems Elevator plan drawing Stair plan drawing Use details sheet AD2 to understand riser, tread, etc. Insert blocks Move Copy Mirror
CLASS 7:	Rotate Lab: insert blocks, draw walls, and layer:
	In Class work
	Quiz 3 next time
CLASS 8:	Model Space & Paper Space, Dimensioning:
	Quiz 3: Create walls, layers, and insert blocks
	Lecture: Ltscale Model Paper Viewport Active viewport Block creation Block copies Insert dimension & Modify dimension Object Snap & dimensioning
CLASS 9:	_ Lab: draw dimensions, title block, layer, and insert blocks:

In Class work

Quiz 4 next time

CLASS 10: [Sheet A7 and A7.1 Window and Door Schedule]: Quiz 4: Create standard entities, paper space, dimensioning Lecture: Text & Mtext Stvle Legend, Key notes & Sheet notes Copy with base point Midpoint - mtp CLASS 11: Lab: schedules: In Class work CLASS 12: [Sheet A1.3 Demolition Plan]: Lecture: Viewport dependant layers; display, color, linetype CLASS 13: Lab: demolition plan: In Class work CLASS 14: [A3 Reflected Ceiling Plan]: Lecture: Collaboration with allied disciplines in this sheet Mechanical Return, supply air register locations Electrical Light fixture location, level of illumination, occupancy sensors, daylighting sensors, switching Insertion point Hatching Xreference Lab: reflected ceiling plan: CLASS 15: In Class work Quiz 5 next time CLASS 16: **Printing:** Quiz 5: Create model and paper entities, hatching Lecture: Chspace Plot style table *** KEEP YOUR CAD FILES FOR CAD 2**** *Printed sheets for redlines due next week

CLASS 17: Lab: print and redline (flex day): *Redline prints due In Class work Student peer redline session Bring your printed project sheets and a red pen Make and receive markups CLASS 18: Lab: print and redline (flex day): In Class work **CLASS 19: Lab: print and redline:** In Class work CLASS 20: **Lab: print and redline:** In Class work CLASS 21: **PROJECT DUE – FINAL EXAM** *Project -turn in: [A1 First and Second Floor Plan] [A7.1 Window Schedule] [A7 Door and Hardware Schedule] [A1.3 Demolition Plan] [A3 Reflected Ceiling Plan] *Final Exam CLASS 22: One on one grading (day 1) In class grading: Bring work and be patient CLASS 23: One on one grading (day 2): In class grading: Bring work and be patient CLASS 24: One on one grading (day 3):

In class grading: Bring work and be patient

Course Policies

TUTORING:

A list of qualified tutors is available upon request. Please see the professor if you feel you need a tutor.

ATTENDANCE:

Attendance will be taken during each class period. Students who are absent will receive a reduction in their total points for the course.

QUIZZES AND EXAM:

There are no makeup quizzes or exams.

CHEATING:

Any form of cheating will result in failure of the course.

EXTRA CREDIT:

There is no extra credit offered for this course.

GRADING SUMMARY:

79-300 A

258-278 B 237-257 C 216-236 D 0-215 F