INTERIOR DESIGNERS INSTITUTE
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Course Syllabus

COURSE: 225-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

CLASS 5: **Lab: draw walls, and layering:**

In Class work walls and layering

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
Rotate

CLASS 7: **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
Style
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

CLASS 15: **Lab: reflected ceiling plan:**

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:

Each student may have two total absences. However, more than two consecutive class meeting absences or three non-consecutive class meeting absences per course may result in the student being withdrawn from the course. Attendance is considered an important habit to acquire in becoming a mature, responsible member of the professional community.

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:

Grade breakdown:	279-300	A
	258-278	B
	237-257	C
	216-236	D
	0-215	F