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# Syllabus

# 225 CAD 1

**SOFTWARE** AutoCAD Student version  
 Obtain the software through the Autodesk Student Community - search for this online and use your student email address to get access to free software. Software version must match the college labs for compatibility. Please wait to install the software until after the first day of class.

**HARDWARE** Microsoft Windows personal computer  
 For more information see college document "Photoshop Course & CAD 1 Course requirements" available at the front office.

**TECHNOLITERACY** Students are solely responsible for all computer related items including but not limited to; hardware, software, files, and file backups. The student is solely responsible for any issues, crashes, glitches, non-performance, and grade point loss related thereto. Each student is required to backup their own files.

<b>GRADING</b>	Project	96 points
	Quizzes	42 points
	Notebook	48 points
	Total:	186 points

For detailed grading criteria and your assigned points see rubrics.

**TIMING**  
 All work products are due before class start time.  
 Any late work will receive zero points.

**WORK PRODUCT**

- Assignment
- 01 - First Floor Plan exterior walls only complete
  - 02 - First Floor Plan all walls complete
  - 03 - First Floor Plan all blocks inserted
  - 04 - Complete sheet A1 First & Second Floor Plan

- 05 - Complete sheet A7 Door & Hardware Schedule
- 06 - Complete sheet A7.1 Window Schedule
- 07 - First Floor Reflected Ceiling Plan hatching complete
- 08 - Complete sheet A3 First & Second Reflected Ceiling Plan
- 09 - Plan set sheet A1, A3, A7, & A7.1 in one PDF file

Turn in

- DWG & PDF files for all project portions
- Files submitted via Canvas
- Files named in the correct format below
  - yearmonthdate-lastnamefirstname-assignment#
  - 20290416-DoeJane-01

Take home quizzes

- A - Take home quiz 1
- B - Take home quiz 2
- C - Take home quiz 3

Turn in

- DWG & PDF files for all quizzes
- Files submitted via Canvas
- Files named in the correct format below
  - yearmonthdate-lastnamefirstname-quizletter-quiz#
  - 20290416-DoeJane-A-01

Notebook

- Section 1
- Section 2
- Section 3
- Section 4
- Section 5
- Section 6

Turn in

- Typed notes as a google doc file URL through Canvas
- Each section added at the front of each prior section
- Doc file is shared correctly
- Class # and topics listed in syllabus are in **bold and underlined**
- File named in the correct format below
  - \_lastnamefirstname-notebook
  - \_DoeJane-notebook

### **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.

### **CLASS OVERVIEW**

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

### **CLASS 1**

#### **Topics**

Email idi.edu not Canvas  
Google drive  
Share  
Canvas  
    Submit URL  
Autocad software  
Plan set pdf  
Grading

**Due before next class**

Setup google drive notes file  
Setup correct sharing  
Setup Windows OS computer  
Install AutoCAD software  
Section 1 - notes added to google doc  
Submit section 1 notes via Canvas

**CLASS 2**

**Topics**

Panic Prevention Tools  
Template  
Ortho  
Object snap  
Units  
Line  
Selection window  
Erase  
Zoom  
Pan  
Measure  
List  
Layers  
Offset  
Trim  
Extend  
Fillet  
Rectangle  
CTB file  
PDF print

**Due before next class**

Section 2 - notes added to google doc

**CLASS 3**

**Lab**

Exterior walls

**Due before next class**

01 - First Floor Plan exterior walls only complete

**CLASS 4**

**Lab**

Interior walls

**Due before next class**

Nothing

**CLASS 5**

**Lab**

Interior walls

**Due before next class**

02 - First Floor Plan all walls complete

**CLASS 6**

**Topics**

Insert blocks

Move

Copy

Mirror

Rotate

Divide

Break at Point

Storefront framing systems

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 for understanding

**Due before next class**

Section 3 - notes added to the top/front of google doc

**CLASS 7**

**Lab**

Insert blocks

**Due before next class**

03 - First Floor Plan all blocks inserted

**CLASS 8**

**Topics**

Compartmentalization

Hour rated walls

Polyline

Model

Paper

Viewport

Linetype

Ltscale

Linetype display  
Dimensions  
    Continue  
Center lines  
    Create layer & assign linetype  
Door keys  
Plan references  
Block text  
Change space  
Modify text  
Legend  
Keynotes

**Due before next class**

Section 4 - notes added to the top/front of google doc

**CLASS 9**

**Lab**

Complete sheet A1

**Due before next class**

Nothing

**CLASS 10**

**Lab**

A1

Complete sheet

**Due before next class**

04 - Complete sheet A1 First & Second Floor Plan

**CLASS 11**

**Topics**

Copy base  
Text  
Mtext  
Text properties  
Diagonal line for midpoint  
Text style

**Due before next class**

Section 5 - notes added to the top/front of google doc

**CLASS 12**

**Lab**

A7

Complete sheet

**Due before next class**

05 - Complete sheet A7 Door & Hardware Schedule

**CLASS 13**

**Lab**

Complete sheet

A7.1

**Due before next class**

Nothing

**CLASS 14**

**Lab**

Complete sheet

A7.1

**Due before next class**

06 - Complete sheet A7.1 Window Schedule

**CLASS 15**

**Topics**

Hatching  
Insertion point  
Viewport layers  
Viewport freeze  
MEP coordination allied disciplines  
Supply and return air register locations  
Light fixture locations occupancy

sensors

Groupware  
Allied disciplines  
Print multipage PDF

in a paper layout tab

Must be

setup

Plot  
Page

to layout

Apply

(under red A)

Print

Batch Plot

Remove

Sheets, Page Setup

**Due before next class**

Section 6 - notes added to the top/front of google doc

**th 11/3 - CLASS 16**

**Lab**

Complete

ceiling hatching

**Due before next class**

07 - First Floor Reflected Ceiling Plan hatching complete

**CLASS 17**

**Lab**

Complete sheet

A3

**Due before next class**

08 - Complete sheet A3 First & Second Reflected Ceiling Plan

**CLASS 18**

**Lab**

multi page PDF

Review print

Xreferences

**Due before next class**

09 - Final plan set sheets A1, A3, A7, & A7.1 in one PDF file

**CLASS 19**

**A - Quiz 1**

**CLASS 20**

**B - Quiz 2**

**CLASS 21**

**C - Quiz 3**

**CLASS 22**

**Grading**

**CLASS 23**

**Grading (FLEX)**

**CLASS 24**

**Grading (FLEX)**