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.

Students are required to match the software versions currently installed in the IDI computer labs. If you are unsure, ask before you purchase and install.

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, internet connection, 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.

GRADING

Project	96 points
Quizzes	42 points
Notebook	48 points
Redlining	14 points
Total:	200 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 & Second Floor Plan exterior walls only complete
02 - First & Second Floor Plan all walls complete
03 - First & Second 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 & Second 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-assignmentt#
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
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.

M 1-8 - CLASS 1

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
n1 - notes added to google doc
Submit section 1 notes via Canvas

W 1-10 - CLASS 2 (college holiday 1-15)
Template
Units
Line
Ortho
Measure
Zoom
Pan
Object snap
Layers
Properties (check orthogonal)
Erase / Delete
Offset
Extend
Fillet
Trim

Due before next class
n2 - notes added to google doc

W 1-17 - CLASS 3

Lab
Selection window
Exterior walls
Measure

Due before next class
1 - First & Second Floor Plan exterior walls only complete

M 1-22 - CLASS 4

        Lab

                Interior walls
                CTB file
                PDF print

    Due before next class
    Nothing

W 1-24 - CLASS 5

        Lab

                Interior walls

    Due before next class
    2 - First & Second Floor Plan all walls complete

M 1- 29 - CLASS 6

        Topics

                Insert blocks
                Move
                Copy
                Mirror
                Rotate
                Rectangle command
                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
    n3 - notes added to google doc

W 1- 31 - CLASS 7

        Lab

                Grab bars
                tp dispenser
                Interior windows
                Insert blocks

    Due before next class

3 - First Floor Plan all blocks inserted

M 2-5 - CLASS 8

Topics

Model space
Paper space
Viewport
Linetype
Ltscale
Linetype display
Dimensions
        Continue
Make Layer
Center lines
Door keys
Plan references
Block text ctrl+double click
Title block text
Room labels
Change space
Modify text
Legend
Keynotes
Compartmentalization
        Hour rated walls
Polyline

Due before next class
n4 - notes added to google doc
Print sheet A1 on 24 x 36 and bring it to class

W 2-07 - CLASS 9

Lab

Red lining Day
Complete sheet A1

Due before next class
Redline assignment due

M 2-12 - CLASS 10 (college holiday 2-19)

Lab
Complete sheet A1

Due before next class
4 - Complete sheet A1 First & Second Floor Plan with blocks and legend

W 2 -14 - CLASS 11

Topics

Copy basepoint
Copybase
Text
Mtext

Text properties
Diagonal line for midpoint
Text style

Due before next class
n5 - notes added to google doc

W 2-21 - CLASS 12

Lab
Complete sheet A7

Due before next class
5 - Complete sheet A7 Door & Hardware Schedule

M 2-26 - CLASS 13

Lab
Complete sheet A7.1

Due before next class
Nothing

W 2-28 - CLASS 14

Lab
Complete sheet A7.1

Due before next class
6 - Complete sheet A7.1 Window Schedule

M 3-04 - CLASS 15

Topics
Hatching
osoptions
Insertion point
Viewport layers
Viewport freeze
Review rubric
Example - legend items Assignment 07
MEP coordination allied disciplines
Supply and return air register locations
Light fixture locations occupancy sensors
Groupware
With allied disciplines
Print multipage PDF
Must be in a paper layout tab
Plot
Page setup

Apply to layout
Print (under red A)
Batch Plot
Remove Sheets, Page Setup

Due before next class
n6 - notes added to google doc

W 3-06 - CLASS 16
Lab
Complete ceiling hatching
Introduction to frozen layers at viewports in layouts
Due before next class
07 - First & Second Floor Reflected Ceiling Plan hatching complete

M 3-11 - CLASS 17
Lab
Complete sheet A3
Due before next class
08 - Complete sheet A3 First & Second Reflected Ceiling Plan

W 3-13 - CLASS 18
Lab
Review print multi page PDF
Xreferences
Quiz review
Due before next class
09 - Final plan set sheets A1, A3, A7, & A7.1 in one PDF file

M 3-18 - CLASS 19
Lab
A - Quiz 1 (3 hours)

W 3-20 - CLASS 20 - no class meeting - take quiz during class time via canvas
B - Quiz 2 (2 hours)

M 3-25 - CLASS 21 - no class meeting - take quiz during class time via canvas
C - Quiz 3 (1 hour)

W 3-27 - CLASS 22 - no class meeting - grading