

EID-217 Intro to Computer Aided Design
Spring 2018 | MW 6:00 pm – 8:50 pm | Eiben 104

Instructor: Aaron Shimizu

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Course Description

Students will learn how to develop floor plans, elevations, sections and schedules using AutoCAD. Students will be introduced to Sketchup as a design visualization tool.

Course Objectives

1. Software Proficiency: Student will be able to create 2D drawings using AutoCAD software.
2. National CAD Standards: Student will be able to create AutoCAD files that conform to nationally recognized CAD standards.
3. Drawing Organization: Student will be able to create a technical drawing set, understand the relationship and organization within the set and understand what information should be displayed on the individual sheets.
4. Building Codes: Student will be able to understand the fundamentals of building codes.
5. Design Visualization: Student will be able to create models in Sketchup.

Course Outline

Projects:

1. AutoCAD Tools:
 - a. Listing of shortcuts, commands and their function
 - b. AutoCAD template
2. Trace existing drawing for hotel renovation project.
3. Hotel renovation model unit drawing set:
 - a. Submittal #1: Design Concept
 - b. Submittal #2: FF&E Submittal
 - c. Submittal #3: Drawing Set
4. Research Projects:
 - a. Part 1
 - b. Part 2
5. Sketchup model of renovated model unit.

Exercises:

- There will be in-class exercises that reinforce concepts learned in class.

Tests:

- AutoCAD Knowledge Test (multiple choice)
- Create Floor Plan (timed drafting assessment)

Grading

- Attendance and participation – 30%
- Tests – 20%
- Projects – 50%

Class Schedule

Week 1:

- Jan 15 Martin Luther King Day
- Jan 17 Course Introduction | AutoCAD Interface | AutoCAD Commands

Week 2:

- Jan 22 AutoCAD Interface | Start Project 1a | AutoCAD Commands
- Jan 24 Project 1a | Start Research Projects | AutoCAD Commands

Week 3:

- Jan 29 Project 1a due | Start Project 1b | Exercise 1 | Project 4
- Jan 31 Start Project 2 | Research Project

Week 4:

- Feb 5 Project 2 | Research Project | Exercise 2
- Feb 7 Research Project | Project 2 | Project 1b due

Week 5:

- Feb 12 Start Project 3 | Research Project | Exercise 3
- Feb 14 Project 2 due | Project 4 Check-in

Week 6:

- Feb 19 President's Day
- Feb 21 Project 3 | Exercise 4

Week 7:

- Feb 26 Project 3, Submittal 1 due | Exercise 5
- Feb 28 Project 3 | Project 4

Week 8:

- Mar 5 Project 3 | Project 4
- Mar 7 Project 3 | Project 4

Week 9:

- Mar 12 Project 3 | Project 4
- Mar 14 Project 3, Submittal 2 due

Week 10:

- Mar 19 Project 4
- Mar 21 Project 4, Part 1 due

Week 11:

- Mar 26 Spring Break
- Mar 28 Spring Break

Week 12:

- Apr 2 Intro to Sketchup | Exercise 6
- Apr 4 Start Project 5

Week 13:

- Apr 9 Exercise 7 | Project 5
- Apr 11 Project 5

Week 14:

- Apr 16 Project 5
- Apr 18 Project 5

Week 15:

- Apr 23 Project 5
- Apr 25 Project 5

Week 16:

- Apr 30 Project 5
- May 2 Project 3, Submittal 3 due | Project 4, Part 2 due

Week 17:

- May 7 Review for final exam
- May 9 Project 5 due | Final Exam

*Class schedule is dynamic and subject to adjustment at instructor's prerogative for course continuity.