

EID-319 Advanced Computer Aided Design
Spring 2021 | Monday / Wednesday 6:00 pm – 8:50 pm | Eiben 104

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Course Description

Students will learn how to develop floor plans, elevations, sections, 3D models and schedules using Revit.

Course Objectives

1. Software Proficiency: Student will be able to create 3D models and 2D drawings using Revit software.
2. National BIM Standards: Student will be able to create BIM files that conform to nationally recognized BIM 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 codes applicable to interior design.
5. Design Visualization: Student will be able to create views from 3D BIM model.

Course Outline

Projects:

1. Produce drawing set of single family home or other approved project.
 - a. Floor Plans/Reflected Ceiling Plans
 - b. Exterior Elevations
 - c. Building Sections
 - d. Interior Elevations
 - e. Details
 - f. Schedules
 - g. Electrical Plans
 - h. Foundation Plans
 - i. Framing Plans
2. Compile a list of how visibility is controlled in Revit and which controls take precedence over the others.
3. Create custom Revit families.

*Other projects may be added to the list at the instructors prerogative.

Exercises:

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

Final Exam:

- Create Floor Plan (timed drafting assessment)

Grading

- Attendance and exercises – 30%
- Final Exam – 20%
- Projects – 50%