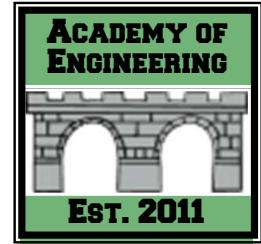


Revit Architecture

4 Weeks



BSCI 201

50 Hrs

MODULE: 3

CREDIT AREA: Computer Science

COURSE OUTCOME: Students will use industry standard Revit Architecture software to prepare house plans. The class concludes with a review of each student's house drawings portfolio by the instructor.

COURSE DESCRIPTION: This course covers the basics of Revit Architecture, from schematic design through construction documentation. Students will be introduced to concepts of Building Information Modeling (BIM) and the tools for parametric building design and documentation. The class focuses on project driving learning with a residential project including; plans, elevations, section, schedules, details, and legends.

PREREQUISITES: CAD 111

COURSE OUTLINE:

Section	Instructor	Subject	Project	Value
1	Smith/Bren	Terminology, Interface, and Viewing	Drawing 1	10 Points
2	Smith/Bren	Drawing, Editing, and Modifying Tools	Drawing 2	10 Points
3	Smith/Bren	Levels, CAD Import, Grids, and Columns	Drawing 3	10 Points
4	Smith/Bren	Doors, Windows, and Library Operations	Drawing 4	10 Points
5	Smith/Bren	Floors, Openings, and Building Sections	Sections	10 Points
6	Smith/Bren	Roof footprint, plan, extrusion, and intersections	Roof plan	10 Points
7	Smith/Bren	Views, Display, Furniture, and Fixtures	-	-
8	Smith/Bren	Sheets and Printing	-	-
9			Portfolio Review	20 Points
10			Attendance	20 Points

STUDENT PERFORMANCE OBJECTIVES:

1. Demonstrate an understanding of the Revit interface and terminology.
2. Demonstrate an understanding of Revit editing and modification tools.
3. Demonstrate an understanding of Revit levels, CAD import, grids, and columns.
4. Demonstrate an understanding of Revit doors, windows, and library operations.
5. Demonstrate an understanding of Revit doors, openings, and building sections.
6. Demonstrate an understanding of Revit roof footprint, plan, extrusion, and intersections.
7. Demonstrate an understanding of Revit views, display, furniture, and fixtures.
8. Demonstrate an understanding of Revit sheets and printing.
9. Prepare and present a portfolio for the class including all drawings and handouts.

METHODS OF INSTRUCTION:

1. Lecture Examples
2. Handouts
3. Individual guidance
4. Demonstrations

STUDENT ASSIGNMENT REQUIREMENTS:

1. Weekly Attendance Character
2. (6) Portfolio Drawings
3. (1) Portfolio Review

EVALUATION AND GRADING STANDARDS:

The 6 portfolio drawings are worth (10) points each for a total of 60 points. The portfolio review at the end of the class is worth 20 points. Attendance is worth (1) point/day for a total of 20 points. The total points for this module is **100 points**. The points from this module will be added to the total for the Technical Math Credit course to determine a final grade.

REQUIRED STUDENT SUPPLIES AND MATERIALS:

1. (3) Ring Binder for Portfolio Presentation
2. Notebook Paper & Writing Utensil
3. Handouts

ADDITIONAL INSTRUCTIONAL RESOURCES:

1. Internet Research