Salt Lake Community College

Division of Visual Arts & Design

Architecture Department

ARCH 2350 - Revit Fundamentals

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Course Description

This course goes through the basics of what it takes to run Revit in your machine, how to create a file and maintain in, how to model a project, annotate it, compile a project, print it and create presentations from Revit

Course Introduction

In this course, students will develop CAD (computer aided draft) skills using BIM (building information modeling) software. The specific software that we will be using for this class will be Autodesk Revit. Over the course of the semester, the basic functions of the software will be learned, and who to apply these skills to construction documentation will be examined.

Course Learning Outcomes

After this course, you should be able to perform various objectives to demonstrate knowledge and expertise in the topics covered in the course such as:

- Being able to define what BIM is, know the meanings of its related terminology, and application to the AEC Industry.
- Understand what types of files Revit software uses, how to save, open, and use Revit templates to start a new project.
- Master basic modeling tools such as walls, doors, windows, floors, roofs, components, etc.
- Utilize proper scales, lineweights, and documentation methods/conventions.
- Master modifying basic modeling elements.
- Master viewing methods and visibility graphic settings.
- Master basic modifying tools.
- Utilize Help and tutorial features within Revit to learn on your own.
- Master text properties, input, and editing.
- Master loading and inserting families and modifying instant and type parameters.
- Master dimension setup and input.
- Master basic material display settings.
- Master basic annotation tools.
- Master printing methods (both digital and physical).

Student Contribution

Students should expect to spend at least 6-8 hours a week on homework. Class attendance is required, and assignments to be turned in on time. This course does build upon itself, and missed lectures and concepts will not be repeated.

Supplies

The software being used in this course is Autodesk Revit. The computer specs needed to run this software are found on Autodesk.com. Students are not required to have their own laptop to run Revit, as the computer labs at SLCC all have Revit and are available for students to do their work there.

Course Evaluation

In this class there will be:

- In-class and online lectures
- In-class and out of class homework assignments
- Out of class quizzes
- In-class lab time to work on homework, and to ask questions.
- Application of principles through homework, quizzes, and exams