

# INTRODUCTION TO AUTODESK REVIT - CAD 160T

Instructor: Alex Sanchez (ph 925-8716)

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Office Hours:

Mon/Wed 1:00 - 1:30 and 3:45-4:30

Tues/Thur 12:00-1:30

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**COURSE DESCRIPTION:** This course is an introduction to B.I.M. (Building Information Models). The course will cover the basic features of Autodesk's REVIT software. Students will learn how to develop a building design starting with the initial sketches and going all the way through to the final construction documents. The course is taught in a lecture/lab format.

**TEXT:** *Residential Design Using Autodesk Revit Building 2015* by Daniel John Stine

ISBN 978-1585038893

**ATTENDANCE:** Students are responsible for any missed classes. Unexcused absences will lower your course grade 1% per unexcused absence (to a maximum of 10%).

**GRADING:** Students will be graded on the basis of tests and drawing assignments.

Drawing assignments ..... 60%

Mid-term and final ..... 40%

**LIBRARY USE:** A list of books, periodicals, and web links will be provided during the first week of class.

## MAIN COURSE OBJECTIVES:

1. Learn how to create initial mass models of a building
2. Learn how to draw and model walls, floors, roofs, stairs and other basic building components.
3. Learn how to create 3D views and renderings of a building model
4. Learn how to create detail drawings and format plot sheets.

**REQUIRED MATERIALS:** You will need a 1 ½" ring binder and a 1 GB (or higher) thumb drive.

## CELL PHONES:

**Please leave them turned off during class. It is very disruptive to have a cell phone call interrupt a lecture. If you have a medical or other critical reason to leave your cell phone on (vibrate mode), notify me prior to class.**

*Students with disabilities should inform me of any special needs at the beginning of the semester.*

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[Alex Sanchez \(alexs@unm.edu\)](mailto:alexs@unm.edu)

## Computer Lab Responsibility:

*Please be advised that use of computer labs on UNM properties is governed by "Policy 2500: Acceptable Computer Use" which can be found at <http://policy.unm.edu/university-policies/2000/2500.html>.*

*Food and drink are also prohibited in any computer lab on campus. Anyone violating these policies is subject to possible suspension and loss of computer lab privileges.*

# **Introduction to Revit**

## **Course schedule**

**Instructor: Alex Sanchez**

Week 1 (Chapter 1) Introduction, Building Information Model structure, Project creation

Week 2 Screen layout, input methods, operation basics, File types

Week 3 Project set-up, Levels, Massing commands, Sketching

Week 4 (Chapter 2) Basic Project workflow: Lake Cabin

Week 5 (Chapter 3) Overview of Linework and Modify Tools

Week 6 (Chapter 4) Drawing 2D Architectural Objects

Week 7 (Chapter 5) Residence: FLOOR PLAN (First Floor)

Week 8 (Chapter 6) Residence: FLOOR PLANS (Second Floor & Basement Plans)

### **Mid-term Review, Mid-term test**

Week 9 (Chapter 7) Residence: ROOF

Week 10 (Chapter 8) Residence: FLOOR SYSTEMS & REFLECTED CEILING PLANS

Week 11 (Chapter 9) Residence: ELEVATIONS

Week 12 Residence: SECTIONS

Week 13 Residence: STAIRS AND RAMPS

Week 14 Residence: SCHEDULES

Week 15 Residence: CURTAIN WALLS

Week 16 Residence: SITE PLANS, **Final review, Final test**