INTRODUCTION TO AUTODESK REVIT - CAD 160T
Instructor: Alex Sanchez (ph 925-8716)

Office Hours:
Mon/Wed 1:00 - 1:30 and 3:45-4:30
Tues/Thur 12:00-1:30

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.

Alex Sanchez (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

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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