

Glendale Community College

Department of Architecture

Course Syllabus – Spring 2012

Course Title: Introduction to Autodesk Revit Architecture (3 Units)
Friday 3:25 – 9:50pm (An hour break will be given.)
Location: AT213

Office Hours: T, Th, F 2:25 – 3:25pm
Location: AT 223 (Inside AT 220)

Catalog Number: Arch 250 **Class Number:** 1400

Instructor: Mr. Dave Martin
Phone: (818) 240-1000 ext. 5528
Email: dmartin@glendale.edu
Webpage: <http://www.glendale.edu/dmartin>

Description: Architecture 250 teaches the fundamentals of the Autodesk Revit Architecture 2011 design software. Projects of a residential and commercial nature are utilized. Techniques used in the creation of floor plans, section views, elevations, schedules, and other construction documents are covered.

Course Duration: Course is one semester in duration of fifteen (15) weeks. There are only fourteen (14) meetings due to holidays.

Prerequisite: Architecture 101 or equivalent.

Course Grading System

Area	% Value
Attendance	10
Book Tutorials	30
Lesson Quizzes	20
Residential Portfolio	10
Final Performance Test	30
Total	100%

- All work is graded based on a percentage and is averaged to find the total grade.
- All projects will be graded on a 100-point grading system.
- Progress grades will periodically be posted on the class web page.

Required Text and Materials: Stine, S., Residential Design Using Revit® Architecture 2012. Mission, KS: Schroff Development Corporation, 2011. ISBN: 978-1-58503-675-2.

- Only purchased/borrowed textbooks will be allowed. Textbooks that have been duplicated/copied may not be used in class. Students may share textbooks.
- Books should be purchased on-line through Amazon.com (www.amazon.com). Books may be available at the GCC bookstore, if you wish to purchase through the bookstore please contact them to order your book.
- A Flash Drive (2GB minimum) is required. This will be used to store completed drawing projects and PDF files.

Attendance Policy

Attendance is worth 10% of the overall grade. The attendance grade is calculated as follows:

1 Absence = 50%, 2 Absences = 25%, 3 Absences or more = 0%

Attendance is taken at the beginning of class. If a student is late more than 15 minutes a ½ absence will be counted toward the attendance grade. Students may also be dropped from a class for excessive absences. If a student misses the equivalent time the class meets in a two-week period during a normal semester then the student may be dropped (See college attendance policy in the GCC catalog).

If a student does miss a class it is extremely important that they contact the instructor as soon as possible. Since it is difficult to make up missed class time, it is important that the student attend every class meeting!

Academic Honesty

It is extremely important the students are honest in their education. It is unacceptable for a student to copy the work of another student and turn it in as their own. This includes drawings, answers on tests and quizzes, and other work done either inside or outside the lab. If a student is caught cheating that assignment will receive a failing grade and further disciplinary action will be taken (i.e. being dropped from the course). Please refer to the GCC catalog for further information.

Grade Change Policy

It is the policy of the Instructor and Glendale College to only allow grade changes for the following reasons:

- Clerical error on the part of the instructor.
- Computer problem (technical error during submission of grade by instructor).
- Revaluation of student's work (at instructor's discretion).
- Grade change from an incomplete (I) grade.

Unless arrangements are made with the instructor prior to the end of the semester, the grade given is the final grade. Grades **will not** be changed by the instructor for work that is turned in after the end of the semester.

Electronic Device Policy

It is the policy of the department to only allow electronic devices to be on in class if they are in silent or vibrate mode. If the student receives a call during class they must either ignore it or leave the room to answer. Text messaging is only allowed outside of the classroom during lecture. Students may text message during open lab as long as they are not disturbing other students.

Students with Disabilities

All students with disabilities requiring accommodations are responsible for making arrangements in a timely manner through the Center for Students with Disabilities. Although not required, the instructor should be notified by the student of any special needs.

Class Requirements and Instructor Expectations

- Tutorials must be completed in the classroom. If the student falls behind, additional work on the projects may be completed at home or during open lab.
- Projects will be graded once during the semester. If an assignment receives an 80% or lower, the student may resubmit the assignment. Both grades will be averaged together.
- Projects are due on or before the date given.
- All work will be graded off of the screen. PDF versions of the drawing files must be saved to the network drive to be graded.
- It is your responsibility to make sure that your work area is clean at the end of each class meeting. If you find any equipment damaged or missing notify the instructor immediately.
- In the event of an absence, the student must inform the instructor in advance to make up tests and assignments.

Student Learning Outcomes (SLOs)

At the conclusion of the course the student will be able to:

1. Complete a series of architectural drafting problems using the Revit software.
2. Explain the relationship between floor plans, elevations, and section views within a parametric environment.
3. Create three-dimensional models and construction documents for a residential design project.
4. Create three-dimensional models and construction documents for a commercial design project.
5. Create photo-realistic renderings of architectural projects.

Internet and Lab Access

- A Blackboard page has been created for this class. Go to <http://bb.glendale.edu/webct/> for access. Use for student ID# for your login. For those students new to Blackboard, your initial password will be your birth date (MMDDYY).
- Handouts, Syllabi, Grades and other information will be available on the Blackboard page.
- Students will be able to download a free copy of the Revit software through the Autodesk Student Community website at <http://students.autodesk.com/>. Students may register for the site using a provided link or with their GCC email address.

Arch 250 - Weekly Schedule

<u>Week</u>	<u>Description of Topics</u>	<u>Book Assignments, Quizzes, Exams</u>
1 (2/24)	Introduction, Syllabus File/Drawing Setup <i>Lesson 1</i> - Getting Started with Revit Architecture 2011 <i>Lesson 2</i> - Lake Cabin: Floor Plan (The Basics)	Read pages 1-1 thru 1-23 Lake Cabin.rvt
2 (3/2)	<i>Lesson 3</i> - Overview of Linework and Modify Tools <i>Lesson 4</i> - Drawing 2D Architectural Objects	ex3-1 thru ex3-4 ex4-1 & ex4-2 Resident. Quiz 1 – Lesson 1,2
3 (3/9)	Begin Residential Project <i>Lesson 5</i> – Residence: Floor Plan (First Floor) <i>Lesson 6</i> – Residence: Floor Plans (Second Floor And Basement Plans)	ex5-1 thru ex5-5 ex6-1 thru ex6-6 Quiz 2 – Lesson 3,4
4 (3/16)	Lesson 7 – Residence: Roof Lesson 8 – Residence: Floor Systems and Reflected Ceiling Plans	ex7-1 thru ex7-4 ex8-1 thru ex8-4 Quiz 3 – Lesson 5,6
5 (3/23)	Lesson 15 – Site Tools (Bonus Chapter – Not in text) Lesson 9 – Residence: Elevations	ex15-1 ex9-1 thru ex9-5 Quiz 4 – Lesson 7,8
6 (3/30)	Lesson 10 – Residence: Sections Lesson 11 – Residence: Floor Plan Features	ex10-1 thru ex10-4 ex11-1 thru ex11-4 Quiz 5 – Lesson 9,10
7 (4/6)	Lesson 12 – Residence: Schedules Lesson 13 – Residence: Photo-Realistic Rendering Spring Break 4/9 – 4/14	ex12-1 thru ex12-3 ex13-1 thru ex13-4
8 (4/20)	Lesson 14 – Residence: Construction Documents Set Residential Portfolio Due	ex14-1 thru ex14-3 Quiz 6 – Lesson 11,12
9 (4/27)	Begin Commercial Tutorials <i>Lesson 2</i> – Quick Start – Small Office <i>Lesson 3</i> – Office Building: Floor Plan (First Floor)	ex2-1 thru 2-4 ex3-1 thru ex3-5 Quiz 7 – Lesson 13,14
10 (5/4)	<i>Lesson 6</i> – Office Building: Floor Systems & Reflected Ceiling Plans	ex6-3
11 (5/11)	<i>Lesson 7</i> – Office Building: Interior & Exterior Elevations	ex7-5 and ex7-6

12 (5/18)	<i>Lesson 9</i> – Office Building: Floor Plan Features	ex9-1 and ex9-4
13 (5/25)	<i>Lesson 10</i> – Office Building: Estimate and Schedules Final Performance Test Review	ex10-3
14 (6/1)	<i>Last Meeting - Final Performance Test</i> 4:30 – 7:00pm	None

Notes:

1. Schedule is subject to change. At least one week advance notice will be given.
2. Quizzes will be given on-line using the Blackboard software. See Blackboard page for quiz deadlines.
3. All lesson tutorials are due at the end of class on the given week.
4. Some lessons will only require that a portion of the exercises will be completed.