

## INDES 262 - Introduction to Computer-Aided Design

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WINTER 2014

M W 6:30 - 9:50PM

### REQUIRED TEXTBOOK

Autodesk Revit Architecture 2014 No Experience Required, Wing

### MATERIALS

A notepad

USB flash memory device.

Revit Architecture 2014 Education Version recommended.

### PREREQUISITE

Permission of instructor. INDES 171. BTS 161 or similar PC-Windows competency is strongly recommended

### COURSE DESCRIPTION

This is an Introductory to Revit Architecture for designers using the PC. Students learn the role and application of Revit Architecture in graphic communication and interior design while producing architectural and interior design projects in 3D. Lectures, textbook and hands-on work in the Revit lab familiarize students with the Revit software and its basic operations. Students will work on projects which include plan, elevation and section drawings and schedules along with 3D perspective, axonometric and presentation drawings. Between lectures, working through the textbook and completing required projects and exams, students should gain a solid skill set from which to continue building.

### COURSE OUTCOMES

Students successfully completing Introduction to Revit will:

Develop an appreciation of Building Information Modeling, specifically Revit Architecture software, as an important tool for design and graphics.

Demonstrate an ability to:

Use Revit Architecture workspace and interface.

Draw plans with walls, windows and doors.

Create sections, elevations and 3D views.

Add component features, such as furniture and equipment.

Build structural girds, walls, roofs, floors and ceilings.

Create complex objects such as stairs.

Create and add a title block to a project.

Set up sheets for plotting with text, dimensions, detail, tags and schedules.

### STUDIO ETIQUETTE

This is as much a studio as it is a computer lab. The class will meet in L121 with the instructor, unless other arrangements are announced. Attendance is mandatory. That includes being on time and

paying attention. Most students experience no problems with regards to their attendance. Since that is not the case for all students, I want it to be clear that I adhere to the attendance policy outlined in the Arts and Humanities Division's "Student Procedures and Expectations," which you can find at: <http://bellevuecollege.edu/artshum/policy.html>. Our class is scheduled to meet 22 times this quarter. 20% of 22 is 4.4 class sessions. Missing class more than this may result in you receiving a No Pass grade.

Both lab and studio work will consist of experimentation, critique, review, and evaluation of the assigned work. Expect to spend at least 12 -15 hours work outside of studio, either reading or working on assignments. All the computers in L116 and L121 have Revit. Interior Design students also have access to N251 Media Lab using the door codes assigned for L116 or L121 studios. N251 has FOUR workstations with the same software as L116/L121. Check with staff in N250 if you are wondering about the hours for N251. Arrange your schedule to take advantage of open lab times in any of these rooms.

Be prepared, every class period, for desk critiques - informal discussions with the instructor of in-progress work. Time and attention you receive may be proportional to the amount of time and attention you spent preparing for class. Establish a schedule and demonstrate progressively more refined skills and ideas each class period. If your work shows no progress, this will be reflected in your evaluations.

If you need help during a lecture/demonstration, raise your hand. Also, don't hesitate to ask for help from, or offer help to, someone nearby.

Be prepared to work during every class. Bring assigned work in progress and any needed materials to the studio every day the class meets and start on-going work immediately, unless a demonstration is occurring.

Practice maintaining a professional atmosphere. This means developing good work habits and limiting conversation - as much as possible - to the work at hand. Food, including snacks and liquids, and audio devices (even personal ones) are not allowed in the lab.

#### DEADLINES

ALL ASSIGNMENTS are due at the beginning of class, unless announced otherwise. You will submit them through Canvas, and the time must be by 6:30pm. Each day an assignment is late, it will be marked down one point. Keep in mind that if an assignment is worth 5 points, and you lose 1 simply for being late, that drops your grade significantly. Please notify the instructor in advance of any extenuating circumstances affecting project completion. Be sure to allow enough time for plotting, when plots are due at the beginning of class. Printing will not be allowed during the first part of the class without explicit instructions to do so.

#### ASSIGNMENTS AND EXAMS

The quarter will involve self-directed learning as you follow the textbook and complete assigned exercises. It will also involve completing exams allowing you to learn by repetition. During class sessions, priority will be given to accomplishing scheduled lectures/demonstrations and, to the extent possible, allowing in-class time to work on assignments. Consult the schedule for details of in-class activities, assignments and due dates.

## EVALUATION

Assignments, in-studio performance, and in-class examinations will be used in evaluating each student's progress and mastery of course material.

### Assignments and Exam Grades

Digital files and/or printed outputs of assignments and project will be used in evaluating a student's performance. Grading of these will follow the Bellevue College Guidelines in the Course Catalog and Student Handbook. Familiarize yourself with the distinction between Outstanding, High, and Satisfactory versus insufficient, lacking or poor (non-passing) achievement. If you have questions about how you are doing in class, please be considerate and make an appointment to talk with me so that I can give you my full attention.

The instructor reserves the right to refuse to review late work when the student has failed to provide advance notice as to the circumstances causing the delay in the project's completion. All assignments must be completed in order to receive a passing grade for the course.

### Studio Grade

Studio grading is based on observation of studio performance: skills, learning approach, attendance, work habits, and progress toward learning goals. It will also include a student's proficiency in completing any in-class assignments.

I realize that all students may not advance at the same pace as we work through the assigned exercises and exams. That's to be expected, due to the different levels of experience all of you bring. However, that means some must spend more time than others to achieve a basic level of competence. All are expected to make continued progress toward individual learning goals throughout the quarter. Students with more experience will be expected to demonstrate more proficiency in their projects. I can provide additional practice exercises that you may pursue if you are finished with your assignments ahead of schedule.

The instructor reserves the right to adjust the student's final grade based on any late work, missed classes, unprofessional behavior (including tardiness, leaving early, disrespect for others, poor preparation, sleeping in class, abusing studio etiquette). I'm pretty reasonable about exceptions, but don't abuse this accommodation, either.

## GRADES

A = Outstanding, Excellent, Exceeds Expectations; B = High Achievement, Very Good, Promising and C = Passable, Developing Skills, Meets Minimum Expectations. Work that is insufficient, lacking or poor, fall in the D and F range.

## DISABILITY RESOURCE CENTER

The Disability Resource Center (DRC) serves students with a wide array of learning challenges and

disabilities. If you are a student who has a disability or a learning challenge for which you have documentation or have seen someone for treatment and if you feel you may need accommodations in order to be successful in college, please contact the DRC staff as soon as possible. The DRC office is located in the Library Media Center (D126) or you can call DRC reception desk at 425-564-2498. Deaf students can reach DRC by video phone at 425-440-2025 or by TTY at 425-564-4110. Please visit DRC's website for application information into their program and other helpful links at

[HTTP://BELLEVUECOLLEGE.EDU/DRC/](http://bellevuecollege.edu/drc/)

#### ACCOMMODATIONS

If you require accommodation based on a documented disability, require assistance or have medical information to share with me in the event of an emergency situation, please contact me via email or make an appointment with me within the first week of the quarter. Emergency preparedness is important!

#### RECOGNITION OF SYLLABUS

It is important that you understand and are prepared for the learning experience ahead by understanding the syllabus contents. The syllabus is a contract between the student and instructor, establishing our responsibilities to each other: what I expect from you and what you can expect from me and the course, including the learning outcomes and environment in which you'll perform; as well as the expected conduct, rights, and responsibilities of students in this class. It is important that you understand and are prepared for the learning experience ahead by understanding the syllabus contents.

Please sign below, as confirmation that you've read the syllabus and that you will discuss with the instructor any issues that you consider confusing, problematic or open to dialogue with the entire class. If your discussion is of a personal nature, please make an appointment with me, rather than discuss it during class.

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Please print name

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Signature

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Date