ARCH 410/510
DIGITAL TOOLS: REVIT FUNDAMENTALS
CRN – 28634/28635

Grading: Pass/No Pass (2 Credits)
Time: Tuesday 12:00pm - 2:00pm, Thursday 11:00am - 1:00pm
Location: White Stag Bldg, Room 374 (Computer Lab)
Instructor: Katalin Czégé
AIA, LEED AP
KCzege@c2karch.com
Office: By appointment

COURSE DESCRIPTION
Building Information Modeling (BIM) is transforming architectural design and construction practice by combining 3D geometry with building component data. Representing the building spaces, systems, materials and costs in one integrated database allows more seamless collaboration throughout the building life-cycle. Enabling clients, designers, engineers and builders to see how building systems come together improves efficiency, reduces errors and allows control of greater complexity.

COURSE OBJECTIVES
This course will introduce students to using BIM for architectural design exploration, communication, and construction. The class will introduce essential software concepts and hands-on operations with Revit Architecture 2013. Hands-on exercises will lead students through the software interface, standard construction systems, creating parametric families and preparing construction documents.

COURSE FORMAT
This course will meet twice a week with lectures, exercises, and homework assignments. Some lectures may be coordinated between Eugene and Portland campuses. Selected guest speakers from prominent firms will present their use of the program. As an option, students can creatively use this class as an opportunity to integrate their own projects; however, this course’s main focus is to introduce a software as a design tool.

SOFTWARE AND HARDWARE
The course is held in a computer lab, which will allow you to have access to the program. However, it is also highly recommended you install Autodesk Revit 2013 (FREE for students from the Autodesk website) on to your personal computers. MAC users: please install Windows using Bootcamp (It is highly recommended to not use Parallels, VMware and other dual operating systems due to Revit’s intensive utilizations of system resources.)

EVALUATION
The University requires 30 hours per term for 1 undergraduate credit and 40 hours per 1 graduate credit (including class time). This is a two credit course that will take up 30 hours in this term in class. Please keep this in mind as the required commitment from you for this course.
Assignments
Assignments will be graded based on how well they show understanding of the specific learning objectives; thoroughness, completeness, and care in completing the exercise; graphic and aesthetic quality; seeking out help when necessary.

On most assignments it will be possible to go beyond the minimum requirements, explore additional features of the software, and take the assignment further. This is recommended, and will be considered in grading. There will be a limited number of extra credit assignments.

The assignment for the entire term will be to create a small house or building that you will develop further each week. Student building Revit files will be submitted each week for review and should clearly demonstrate understanding and practice of the topics discussed the previous week. At the end of the term all the buildings will be brought together in one class site model to show how to use collaboration in the program.

Class Information On The Internet
The class will have a blog site: http://revitclass.wordpress.com/ This site will be used for class information and student interaction.
The class has a Dropbox folder that will be shared with the students’ U of O email accounts. The Dropbox folder will be where all homework Revit files will be submitted for the weekly assignments.

Participation
Participation is based on regular attendance, evidence of preparation for class, frequency and quality of contributions to discussions, asking clear & concise questions whenever necessary, and being on-task during tutorial sessions.

Grade Breakdown
UNDERGRADUATE   GRADUATE
Assignments 75%   Assignments 85%
Participation 25%   Participation 15%

(Note: Late assignments may be accepted at the instructor’s discretion, for a reduced score.)
RECOMMENDED BOOKS

Other Books:


UNIVERSITY GUIDELINES AND RULES
Inclusion Statement: The School of Architecture and Allied Arts is a community that values inclusion. We are committed to equal opportunities for all faculty, staff and students to develop individually, professionally, and academically regardless of ethnicity, heritage, gender, sexual orientation, ability, socio-economic standing, cultural beliefs and traditions. We are dedicated to an environment that is inclusive and fosters awareness, understanding, and respect for diversity. If you feel excluded or threatened, please contact your instructor and/or department head. The University Bias Response Team is also a resource that can assist you. Find more information at their website at http://bias.uoregon.edu/index.html or by phoning 541-346-2037.

Special Needs: Students with special needs requiring academic accommodations should 1) register with and provide documentation to Disability Services (DS) at http://ds.uoregon.edu; 2) bring a letter to the instructor from the DS indicating that you need academic accommodations, and we will arrange to meet them. This should be done during the first week of class.

Academic Misconduct: The University Student Conduct Code (available at conduct.uoregon.edu) defines academic misconduct. Students are prohibited from committing or attempting to commit any act that constitutes academic misconduct. By way of example, students should not give or receive (or attempt to give or receive) unauthorized help on assignments or examinations without express permission from the instructor. Students should properly acknowledge and document all sources of information (e.g., quotations, paraphrases, ideas) and use only the sources and resources authorized by the instructor. If there is any question about whether an act constitutes academic misconduct, it is the students’ obligation to clarify the question with the instructor before committing or attempting to commit the act. Additional information about a common form of academic misconduct, plagiarism, is available at www.libweb.uoregon.edu/guides/plagiarism/students