ARCH 399
DIGITAL TOOLS: REVIT FUNDAMENTALS
CRN-37302

Grading: Pass/No Pass (2 Credits)
Time: Tuesday & Thursday 9:00am - 10:50am
Location: T.B.A.
Instructor: Katalin Czege, AIA, LEED AP
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COURSE DESCRIPTIONS
Just as the old drafting table gave way to “Computer Aided Drafting” (CAD), again the architecture and construction industries are shifting gears from 2-D CAD to 3-D “Building Information Modeling” (BIM). These programs allow for quick and easy manipulation and revision of projects throughout their durations and support collaboration between the multiple professions involved (architecture, engineers, contractors, etc). Spaces, systems, materials, and costs are represented in one integrated database, which allows more seamless collaboration throughout the building life cycle. BIM also enables stakeholders to see how building systems come together, which improves efficiency, reduces errors, and allows greater complexity.

COURSE OBJECTIVES
This course teaches the use of BIM for architectural design exploration, communication, and construction through the use of Revit Architecture 2012. Exercises lead students through basic to intermediate understandings of the software interface, standard construction systems, custom families creation, and digital rendering tools used in Revit Architecture 2012. Many companies have caught on to the benefits of BIM design processes and often require proficiency in BIM programs such as Revit from their employees. Learn Revit now and make yourself more employable when you graduate.

COURSE FORMAT
This course will meet twice a week with lectures, exercises, and homework assignments. Some lectures will be coordinated between Eugene and Portland campus. 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 & 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 2012 (FREE for students from the Autodesk website) on to your personal computers. For MAC users please install Windows using Bootcamp (It is highly recommended not to use Parallels, VMware and other dual operating systems due to Revit’s intensive utilizations of system resources.)