ARCH 399
DIGITAL TOOLS: REVIT FUNDAMENTALS

Grading: Pass/No Pass (2 Credits)
Time: Wednesday & Friday 8:30am - 10:20am
Location: White Stag Bldg, Computer Lab
Instructor: Katalin Czégé
AIA, LEED AP
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Office Hours: 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 design and construction life-cycle. Enabling clients, designers, engineers and builders to see how a building design and building systems come together improves efficiency, opens up communication avenues, 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 2012. Hands-on exercises will lead students through the software interface, standard construction systems, creating parametric families and preparing basic construction documents.

COURSE FORMAT
This course will meet twice a week with lectures, exercises, and homework assignments. 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 the 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 highly recommended you install Autodesk Revit 2012 (FREE for students from the Autodesk website) onto 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.)