Building Information Modeling: 
Revit Fundamentals

Description
Building Information Modeling (BIM) is quickly becoming the dominant technology for architectural design and production. By combining 3D geometry with rich data about building components, we are able to represent spaces, systems, materials and costs in one integrated “virtual building” that eases collaboration throughout the building lifecycle. Enabling clients, designers, engineers and builders to see how building systems come together improves efficiency, reduces errors and allows control of greater complexity.

The course will cover the fundamentals of Revit and related BIM tools, and aims to provide a range of skills useful for academic studios, as well as future internships and employment.

We will learn to use Revit for conceptual, presentation, and documentation phases of a project. In addition to hands-on software skills, students will understand the concepts behind BIM, how it differs from traditional drafting and CAD, and the implications of this technology for design and the construction industry.

Instructor
Christopher Deel is a UO graduate with twelve years experience in architectural firms, in roles from drafter to construction administrator. This includes over two years as CAD Manager for WWCOT Architects in Los Angeles, where he helped implement BIM, train staff, and develop company standards for Revit use. He is intrigued by BIM’s potential to help architects spend less time laboring over drawings and more time understanding and refining their designs. He is constantly learning new things about BIM and Revit, and enjoys introducing others to this powerful technology.

Format
Instruction is primarily through in-class demos, hands-on exercises, and practical assignments with the software. There will be occasional readings, discussions, and an additional assignment for graduate (Arch 510) students.

Software
Although classroom instruction will be on university computers, students will need access to their own copy of Revit 2015 (free for students from http://students.autodesk.com; Windows only).