Description

Building Information Modeling (BIM) has transformed architectural design and construction by combining 3D geometry with rich data about building components. Representing spaces, systems, materials and costs in one integrated “virtual building” allows more seamless 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 with a dual focus: features and techniques for academic studio work, and skills for 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

Karen E. Williams is a Florida A&M University graduate with ten years of experience working in the architectural profession. This includes over 8 years with HKS Architects Inc in Orlando, FL, where she held multiple roles including Job Captain, Project Architect, and Assistant Project Manager. Relative to this course she helped implement BIM across the company, served as BIM Manager on various size projects, instructed other staff on Revit, and helped to develop company standards for Revit. She supports the strides made by the profession with the implementation of BIM. BIM has increased general communication for project teams which is a benefit to the technical development of the profession. She enjoys learning new techniques for designing and graphic development. She believes sharing the potential of this tool is a spring board to creativity and exploration for future design ideas.

Format

Instruction is primarily through in-class demos, hands-on exercises, and practical assignments with the software. There will be REQUIRED reading, 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;