

## Abstract

Presentation Title: **Software for Student Understanding of Interior Systems, Architectural Detailing and Millwork, Fixtures, Finishes, and Equipment**

Presenter: **Michelle Rose**

Author: **Michelle Rose**

Building Information Modeling (BIM) is quickly becoming the industry standard for creating kitchen and bath design projects. Although the automated features of the software alludes to making the design of projects easier, the software actually provides the means for students to focus more on design and understanding construction systems and components, and less on tedious drafting issues. Using this concept, a project was modified in a course that teaches construction systems and documentation to utilize kitchen and bath industry standard BIM software instead of the previously utilized computer aided design software. As students learned to use the software, they were also taught each construction assembly type at the same time they learned how to draw the assembly type in the project. Pre-tests and post-test were used to assess student's knowledge before and after each lesson, and a comprehensive test was used to assess student retention of the information at the end of the course. As a result, student ability to describe and demonstrate knowledge of interior systems, architectural detailing and millwork, fixtures, finishes, equipment, and the application of the proper systems for code compliance increased from the former course projects, in which BIM software was not utilized.