

CAD ARCH DESIGN 3

Course Description

The third in a sequence of courses that prepare individuals for careers in the architecture engineering and construction AEC industry. This course includes construction and 3D computer aided design CAD software to model a small commercial building with an emphasis on commercial methods and materials of construction, codes, and building information modeling (BIM).

Strands

1. Students will discover how Building Information Modeling (BIM) is changing how buildings, infrastructure, and utilities are planned, designed, built, and managed.
2. Students will identify the basic considerations in using International Building Code (IBC).
3. Students will be able to understand how accessibility codes and guidelines affect all new and some existing commercial construction projects.
4. Students will be able to understand demonstrate BIM techniques to create BIM architectural drawings to a professional standard.
5. Students will model and document the remodel of an existing commercial building using “as built” drawings.

