

AEC 161 : Building Information Modeling Software

Credits: 3

Class Hours: 3 lecture

Prerequisites: "C" or higher or concurrent enrollment in AEC 101.

Description: This course provides students with the opportunity to work on a medium-size modeling/drafting project using the latest architectural software. Emphasis is on the three-dimensional drawing. Architectural models, rendering, and animation are important elements of the course. Students create photo realistic computer images of buildings, components, and the project site.

Semester Offered: Fall

Course Student Learning Outcomes (CSLOs):

1. Demonstrate oral and written communication, computation, and problem-solving skills appropriate to BMI construction.
2. Demonstrate the appropriate software commands to create a 3D building model including the following assemblies: walls, floors, doors, windows, roofs, components, dimensions and stairs.
3. Compose and print a sheet in a building model set.
4. Create still renderings, perspective views, and walk through animations of a building model using Building Information Modeling (BIM) software.
5. Import a vector-based reference drawing into a model file.
6. Demonstrate the loading of components into a building model.