



CAD ARCH DESIGN 1

Course Description

The first in a sequence of courses that prepare individuals for careers in the Architecture, Engineering, and Construction (AEC) industry. This course includes instruction and 2D or 3D Computer-Aided Design (CAD) software to draw a small residential home with an emphasis on blueprint reading.

Strands

1. Students will investigate Architecture, Engineering, and Construction (AEC) related career opportunities.
2. Students will be able to understand, demonstrate, and apply mathematics and measuring skills.
3. Students will be able to interpret and create construction documents used in the AEC industry.
4. Students will be able to demonstrate sketching and CAD drawing techniques
5. Students will be able to layout a floor plan for a residence that meets Habitat for Humanity specifications for a 2-bedroom, slab-on-grade, 20-foot by 40-foot starter home .
6. Students will be able to use construction documents to identify components and construct a scaled physical cross-section model of a rambler with a basement using readily available materials.

