BAKER COLLEGE
STUDENT LEARNING OUTCOMES

CAD2360A Computer Aided Design I
3 Semester Credit Hours

Student Learning Outcomes and Enabling Objectives

1. Explain foundational CAD concepts
    a. Discuss the basic concepts of manual drafting
    b. Explain the history of CAD
    c. Explore steps in the design process
2. Construct part models
    a. Create fully constrained 2D sketches
    b. Create 3D solids
    c. Modify sketches and features
3. Construct simple assemblies
    a. Create assembly constraints
    b. Modify assembly constraints
    c. Evaluate assembly constraints
4. Construct simple drawings according to standards
    a. Produce views for drawings
    b. Produce working drawings
    c. Modify existing drawings

Big Ideas and Essential Questions

Big Ideas

- History and foundations
- Design simple parts
- Simple assemblies
- Simple drawings

Essential Questions

1. How have modern CAD systems evolved?
2. How is 2D geometry used to create a 3D part?
3. How can parts be combined into assemblies?
4. How can drawings be constructed to convey necessary information?

These SLOs are/ are not approved for experiential credit.

Effective: Fall 2024