

**Western Dakota Technical Institute
800 Mickelson Drive
Rapid City, SD 57703-4018**

Master Syllabus

Course Number: CAD 244
Course Name: 3D Engineering Design
Credits: 3
Contact Hours: 1 Lecture; 4 Lab

Course Description: This course covers advanced features of parametric solid modeling including the concepts of parts, assemblies, drawings, sheet metal design, and animation.

Prerequisites: CAD 255

Textbooks: None

Materials: Notebook and/or note paper, drafting scales (Arch. & Eng.), storage media for backing up electronic working files, and folder for handouts.

Student Learning Outcomes:

- Generate parametric solid models including standard and sheet metal parts
- Construct drawings from solid models
- Simulate complex mechanical devices in assemblies

Assessment: Students' life skills, communication skills, analytical skills, technology skills, teamwork techniques, and employability will be assessed throughout this course.

ADA Accommodations: Students Rights to Assistance or Accommodations: If you have a documented disability for which you are or may be requesting accommodations, you should contact your instructor and the Disability Coordinator as early as possible in the semester.

Notice of Non-Discrimination: Western Dakota Technical Institute does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Disability Coordinator.