

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

Master Syllabus

Course Number: CAD 232
Course Name: Mechanical Principles
Credits: 3
Contact Hours: 2 Lecture; 2 Lab

Course Description: This course equips the student with basic principles of mechanical operations, component interaction, and assembly procedure.

Prerequisites: CAD 132 or must take concurrently with CAD255

Textbooks: <http://bookstore.wdt.edu>

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:

- Examine the mechanical design process including materials, manufacturing methods, and analysis
- Design mechanical devices that contain fasteners, power transmission, and motion control components

Assessment: Students' life skills, communication skills, analytical skills, technology skills, teamwork techniques, and social values 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.