

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

Master Syllabus

Course Number: CAD 101
Course Name: Drafting Fundamentals
Credits: 3
Contact Hours: 1 lecture; 4 Lab

Course Description: The student is introduced to the fundamentals of drafting for the architectural, civil, and mechanical fields. The course covers the principles of board drafting, use of equipment, orthographic drawings, shape description, isometric drawings, and basic design concepts. The course strives to develop good drafting habits, technical abilities, and communication and teamwork skills.

Prerequisites: None

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

Materials: Drafting kit and board, notebook, construction calculator, folder for handouts

Student Learning Outcomes:

- Generate accurate drafting plans with standard manual tools and equipment.
- Apply geometric construction to drawings.
- Demonstrate competence in drawing and sketching isometric and orthographic drawings.
- Demonstrate competence in shape description and lettering skills.

Assessment: Students' life skills, analytical skills, social values, 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.