

**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: 3 Lecture

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: Western Dakota Technical Institute (hereinafter WDT) does not discriminate on the basis of disability. If you have a disability as defined by federal or state law, including a temporary disability related to pregnancy and/or parenting as a result of a medical necessity due to childbirth, WDT will provide reasonable accommodations including but not limited to architectural access, aids and services necessary for effective communication, and modification of its policies and procedures. Students with a disability who are requesting an accommodation should contact your instructor and the Student Success Director who serves as the disability coordinator as early as possible in the semester.

Notice of Non-Discrimination: WDT will not tolerate racism, discrimination, harassment, exploitation or victimization of students, school employees, non-employees, or any person who is an invitee of WDT for any reason, including but not limited to race, color, ethnic background, national origin, pregnancy, student marital status, religion, creed, age, sex, citizenship, political affiliation, mental and/or physical challenge, disability, sexual orientation, gender identity, or status as a veteran. WDT is committed to providing an environment free from harassment and other forms of discrimination for students, employees, non-employees and its invitees. The following person has been designated to handle inquiries or complaints regarding the non-discrimination policies: Student Success Director