

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

**Master Syllabus**

**Course Number:** CAD 215  
**Course Name:** Light Commercial Construction w/ Mechanical and Electrical  
**Credits:** 3  
**Contact Hours:** 3 Lecture

**Course Description:** This course is designed to introduce the student to the concepts, techniques, and safety practices of mechanical and electrical systems as they apply to the drafting environment. Course emphasis includes reading and drawing prints to show mechanical and electrical requirements, safe practices, introduction the National Electric Code (NEC), mechanical and electrical symbols, and basic concepts.

**Prerequisites:** CAD 139

**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:**

- Generate drawings of mechanical and Electrical systems in accordance with industry standard symbols, notations, and elements.
- Analyze mechanical and electrical system requirements size and type of equipment.

**Assessment:** Students' life skills, analytical skills, communication skills, technology skills, 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.

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