

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

**Master Syllabus**

**Course Number:** MATH 100  
**Course Name:** Elementary Algebra  
**Credits:** 3  
**Contact Hours:** 3 Lecture

**Course Description:** This course prepares students for college level-mathematics. Topics generally include: basic properties of real numbers, exponents and radicals, rectangular coordinate geometry, solutions to linear and quadratic equations, inequalities, polynomials, and factoring. Students may also be introduced to functions and systems of equations.

**Prerequisites:** Achieved required score on a national or a Western Dakota Tech qualifying placement test or passing grade in MATH090.

**Textbook:** <http://bookstore.wdt.edu>

**Materials:** Calculator (graphing calculator recommended), pencils, and erasers

**Student Learning Outcomes:**

- Describe the properties of natural numbers, whole numbers, integers, rational and irrational numbers, and real numbers
- Solve absolute value equations
- Graph solutions to linear equations and inequalities in two variables
- Solve systems of linear equations and inequalities
- Expand polynomial equations

**Assessment:** The core abilities of analytical skills and teamwork techniques 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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December 2016

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