

# Bemidji State University

## MATH 0800: Intermediate Algebra

### A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

An algebra course designed for students with an insufficient algebraic background for CS 1309, MATH 1100, MATH 1107, or MATH 1170. This course must be taken for a letter grade and, to use this course as a prerequisite for MATH 1100 or MATH 1107, a grade of C or better must be achieved, and to use this course as a prerequisite for CS 1309 or MATH 1170, a grade of B or better must be achieved. Credits are not applicable towards graduation. Topics include solving linear and quadratic equations, applications, linear inequalities, factoring, operations on polynomials, rational and radical expressions, and graphing linear equations.

**B. COURSE EFFECTIVE DATES:** 08/21/1997 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Linear and quadratic equations
2. Applications
3. Linear inequalities
4. Factoring
5. Operations on polynomials
6. Rational and radical expressions
7. Graphing linear equations

### D. LEARNING OUTCOMES (General)

1. Demonstrate facility with the basic operations of integers, including addition, subtractions, multiplication, division and exponentiation, and use order of operation correctly.
2. Demonstrate facility with the basic operations of fractions including addition, subtraction, multiplication and division.
3. Demonstrate ability to write and solve single and multiple step equations and inequalities in a single variable.
4. Demonstrate ability to add, subtract, multiply and divide polynomial expressions.
5. Demonstrate ability to factor monomials from polynomials, and factor trinomials.
6. Exhibit ability to add, subtract, multiply and divide rational expressions and solve proportions.
7. Show they are able to write and graph linear equations in two variables.
8. Demonstrate ability to simplify, add, subtract and multiply and divide radical expressions.

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted