COURSE NUMBER & TITLE: MATH 0982: Algebra Concepts  
CREDITS: 1 (Lec 1 / Lab 0)  
PREREQUISITES: Completion of MATH 0961 Algebra for Liberal Arts with a “C” or better, or placement exam, or equivalent.  
CO-REQUISITE: MATH 0983: Intermediate Algebra  

CATALOG DESCRIPTION:  
Algebra Concepts is a review of topics essential to success in MATH 0983: Intermediate Algebra.  

OUTLINE OF MAJOR CONTENT AREAS:  
1. Operations on Real Numbers  
2. Graphing Inequalities on the Number Line  
3. Absolute Value  
4. Order of Operations  
5. Additive and multiplicative inverses  
6. Translating to an Algebraic Expression  
7. Evaluating Algebraic Expressions  
8. Equivalent Fraction Expressions  
9. The Commutative Laws and the Associative Laws  
10. The Distributive Laws  
11. Collecting Like Terms  
12. Removing Parentheses and Collecting Like Terms  
13. Exponential Notation Exponential Notation  
14. Scientific Notation  

COURSE GOALS/OBJECTIVES/OUTCOMES:  
1. Students will perform arithmetic operations on real numbers.  
2. Students will represent inequalities on the number line.  
3. Students will describe absolute value.  
4. Students will recognize circumstances where laws of real numbers may be used.  
5. Students will translate words into algebraic expressions.  
6. Students will create equivalent algebraic expressions.  
7. Students will manipulate and simplify algebraic expressions.  

MNTC GOALS AND COMPETENCIES MET:  
N/A
HCC COMPETENCIES MET:
Communicating Clearly & Effectively
Thinking Creatively & Critically

STUDENT CONTRIBUTIONS:
The student will attend class regularly, participate in class discussion, complete daily assignments, in class exercises, and exams. The student will spend a minimum of two hours completing assignments for every hour in class. These must be accomplished in such a way that they meet minimum standards set by the instructor.

STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.

SPECIAL INFORMATION:
The student may be required to provide a calculator for this course. If a specific calculator model is required, this model will be specified by the instructor on the course syllabus.

Students shall take an algebra readiness exam at the start of the course. The purpose of this exam is to assess student knowledge of algebra concepts. Students who score sufficiently high on the exam may have the opportunity to drop this course while still taking MATH 0983: Intermediate Algebra. The instructor will make the final determination on this matter.

Curriculum Approval Date: March 5, 2019
AASC APPROVAL DATE: March 20, 2019
REVIEW DATE: March 2024