Course Title: Advanced Algebra
Submitted By: Monica Pavek
Semester Course Prefix and Number: MATH 0096
Old Quarter Course Prefix and Number:
Approval Date: December 18, 2018
Revision Date: December 18, 2018

Number of Credits: 4
Number of Lecture Credits: 4
Number of Lab Credits: 
Number of Lab Hours: 
Number of Studio/Demonstration/Internship Credits: 

Course Purpose Code:
___ 0 – Developmental Courses
___ 1 – Non-transferable
___ 2 – Technical course related to career programs
___ 3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
___ 4 – Other college course not considered a part of MNTC (e.g. computer science, health, physical education)
___ 5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.
___ 6 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:
This course is a review of factoring, exponents and radicals. It is the study of rational expressions and equations, quadratic equations and inequalities, system of equations, graphing techniques and functions.

Prerequisites and/or recommended entry skills/knowledge:
Course Prerequisite(s): MATH 0095
Reading Prerequisite:
Composition Prerequisite:
Mathematics Prerequisite: Placement by CPT score or a grade of “C” or higher in MATH 0095

Career Programs and Transfer Majors Accessing this Course:

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:
(Note: No more than two goals may be met by any one course. AASC review and the Chief Academic Officer’s approval are required.)
0. ___ None
1. ___ Communications
2. ___ Critical Thinking
3. ___ Natural Sciences
4. ___ Mathematical/Logical Reasoning
5. ___ History and the Social and Behavioral Sciences
6. ___ The Humanities and Fine Arts
7. ___ Human Diversity
8. ___ Global Perspectives
9. ___ Ethical and Civic Responsibility
10. ___ People and the Environment
**Learning Outcomes**: (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:

- Demonstrate problem-solving skills by solving word problems.
- Demonstrate proficiency in linear functions and properties of their graphs.
- Demonstrate proficiency in quadratic functions and properties of their graphs.
- Demonstrate proficiency in solving equations involving polynomial and rational expressions.
- Demonstrate proficiency in polynomial and rational functions and properties of their graphs.

**Student Assessment Methods**: May include:

Portfolios (Notebook)  
Quizzes  
Homework  
Exams

**Use of Instructional Technology**: (includes software, interactive video and other instructional technologies):

This course may use technology such as a mastery-based homework and testing system software. Also may use On Line Educational Resources.

**Additional Special Information**: (special fees, directives on hazardous materials, etc.)

**Transfer Information**: (Please list colleges/majors that accept this course in transfer.)

**Affiliated Mesabi Range College Courses and Programs**:

This course is a developmental Mathematics course.

**Approvals**:

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**Distribution**: Original – Instructional Services  
**Copies**: Transfer Specialist, Originating Faculty Member, Records  
**Revised**: December 2012