MESABI RANGE COMMUNITY & TECHNICAL COLLEGE – VIRGINIA/EVELETH

Course Outline

Course Title: Higher Algebra
Semester Course Prefix and Number: Math 094
Old Quarter Course Prefix and Number: Math 098
Submitted By: G. Suoja
Approval Date:
Revision Date: 1/23/04

Number of Credits: 4
Number of Lecture Credits: 4

Semester(s) Offered:
Number of Lab Credits:
Number of Lab Hours:
Negotiated Class Size: 30
Number of Studio/Demonstration/Internship Credits:

Course Purpose Code:

- [X] **0 –** Developmental Courses
- [ ] **1 –** Non-transferable, General Education
- [ ] **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 general education (MNTC) e.g. computer science, health, physical education
- [ ] **5 –** Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements.
- [ ] **9 –** Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

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

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s):	None
Reading Prerequisite:	None
Composition Prerequisite:	None
Mathematics Prerequisite:	Placement by CPT score or a grade of "C" or higher in Math 093 (or previous course Math 096)

Career Programs and Transfer Majors Accessing this Course:

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable: Notes: No more than two goals may be met by any one course. (Curriculum Committee review and the Chief Academic Officer's approval are required).

0. [X] 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:

The goal is to increase students' knowledge about mathematical and logical modes of thinking. This will enable students to appreciate the breath of applications of mathematics, evaluate arguments, and detect fallacious reasoning.

Student assessment methods:

Tests, Graded homework, Quizzes

Use of instructional technology (includes software, interactive video and other instructional technologies):

Students are encouraged to use graphing calculators and the computer software DERIVE.

Outline of the major course content:

Rational Expressions; Exponents and Radicals; Quadratic Equations and Inequalities; Coordinate Geometry including lines and conic sections; Functions including exponential and logarithmic.

Additional special information (special fees, directives on hazardous materials, etc.)

Transfer Information: (Please list colleges/majors that accept this course in transfer.)
This is a developmental course.

Approvals:

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

Distribution: Original – Administrative Office
Copies: Curriculum Committee Chair, Learning Center, Library, Originating Faculty Member, Records, Student Services, Scheduler, Transfer Specialist