

# MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

## Course Outline

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Course Title: Intermediate Algebra  
Semester Course Prefix and Number: Math 0095  
Old Quarter Course Prefix and Number:

Submitted By: Monica Pavek  
Approval Date:  
Revision Date: Dec. 5, 2013

Number of Credits: 3  
Semester(s) Offered:  
Class Size: 25  
Negotiated by AASC on:  
(date)

Number of Lecture Credits: 3  
Number of Lab Credits:  
Number of Studio/Demonstration/Internship Credits:

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### 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.  
 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

### Catalog Description:

This course is a review of operations with real numbers, polynomials, and exponents. Solutions of linear equations and applications; factoring; operations with rational expressions and solution of rational equations are also included in this course.

### Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): MATH 0090  
Reading Prerequisite: None  
Composition Prerequisite: None  
Mathematics Prerequisite: Placement by CPT score or a grade of "C" or higher in MATH 0090

### 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. AASC review and the Chief Academic Officer's approval are required.)

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|--|--|
| 0. <input checked="" type="checkbox"/> None                                | 6. <input type="checkbox"/> The Humanities and Fine Arts     |
| 1. <input type="checkbox"/> Communications                                 | 7. <input type="checkbox"/> Human Diversity                  |
| 2. <input type="checkbox"/> Critical Thinking                              | 8. <input type="checkbox"/> Global Perspectives              |
| 3. <input type="checkbox"/> Natural Sciences                               | 9. <input type="checkbox"/> Ethical and Civic Responsibility |
| 4. <input type="checkbox"/> Mathematical/Logical Reasoning                 | 10. <input type="checkbox"/> People and the Environment      |
| 5. <input type="checkbox"/> History and the Social and Behavioral Sciences |  |

**Learning Outcomes:** (including any relevant competencies listed in the Minnesota Transfer Curriculum)

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

- Demonstrate proficiency by setting up and solving linear equations.
- Demonstrate proficiency in solving quadratic equations using factoring, completion of squares, and the quadratic formula.
- Demonstrate proficiency in using the properties of exponents.
- Demonstrate proficiency in factoring special cases of higher order polynomials.
- Demonstrate proficiency in simplifying radical expressions.

**Student Assessment Methods:**

Portfolio (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.

**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 math course.

**Approvals:**

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

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