

MESABI RANGE COLLEGE

Course Outline

Course Title: Applied Technical Math
Semester Course Prefix and Number: GEDM 1175
Old Quarter Course Prefix and Number:

Submitted By: Math Dept
Approval Date:
Revision Date:

Number of Credits: 2
Semester(s) Offered: All
Class Size: 30
Negotiated by AASC on:
(date)

Number of Lecture Credits: 2
Number of Lab Credits: 0 **Number of Lab Hours:** 0
Number of Studio/Demonstration/Internship Credits: 0

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 involves an integrated approach to higher order problem solving strategies involving algebra, geometry, and trigonometry.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s):
Reading Prerequisite:
Composition Prerequisite:
Mathematics Prerequisite: Placement by CPT score

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:

- Solve real-world and mathematical problems using algebraic methods
- Understand concepts of real numbers including conversions between real, scientific, and engineering notation
- Perform mathematical operations in bases other than ten, including binary arithmetic
- Apply trigonometric ratios to solve problems involving right triangles

Student Assessment Methods:

Attendance/Participation in class
In-class Assignments
Homework
Quizzes/ Tests

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

A scientific calculator is strongly recommended

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:

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
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