

MESABI RANGE COMMUNITY & TECHNICAL COLLEGE – VIRGINIA/EVELETH

Course Outline

Course Title: Foundations of Mathematics II
Semester Course Prefix and Number: MATH 1512
Old Quarter Course Prefix and Number: MATH 105

Submitted By:
Approval Date:
Revision Date: Feb. 2002

Number of Credits: 3 Number of Lecture Credits: 3
Semester(s) Offered: Number of Lab Credits: Number of Lab Hours:
Negotiated Class Size: Number of Studio/Demonstration/Internship Credits:

Course Purpose Code:

- 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 is continuation course of Foundations of Math I. This course includes the study of operations with integers and applications to solving equations; simple geometric figures and calculations of area, perimeter, and volume; consumer application problems; statistics.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): None
Reading Prerequisite: None
Composition Prerequisite: None
Mathematics Prerequisite: MATH 1511 (or previous course MATH 105), or consent of instructor

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. 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:

Goal 4: Math/Logical reasoning – The students will be able to:

1. Illustrate historical and contemporary applications of mathematical/logical systems.
2. Clearly express mathematical/logical ideas in writing.
3. Explain what constitutes a valid mathematical/logical argument (proof).
4. Apply higher order problem solving and/or modeling strategies.

Student assessment methods:

Unit tests

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

If available

Outline of the major course content:

A continuation of Math 1511. The study of operations with integers and applications to solving equations; simple geometric figures and calculations of area, perimeter, and volume; consumer application problems; statistics.

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

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

Approvals:

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Meet and Confer		
Chief Academic Officer		

Distribution: Original – Administrative Office, Library, Learning Center, Records, Student Services, Curriculum Committee Chair