

MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

Course Outline

Course Title: Math for Masons
Semester Course Prefix and Number: MASN 1226
Old Quarter Course Prefix and Number:

Submitted By:
Approval Date:
Revision Date:

Number of Credits: 2 **Number of Lecture Credits:** 1
Semester(s) Offered: **Number of Lab Credits:**1 **Number of Lab Hours:**
Class Size: **Number of Studio/Demonstration/Internship Credits:**
Negotiated by AASC on:
(date)

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 or intended for transfer.
- 9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

This course covers math applications used in the masonry trade including fractions, percentages, area, Volume, linear measure, square root and Pythagorean theorem.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): None

Reading Prerequisite:

Composition Prerequisite:

Mathematics Prerequisite:

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)

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

- 1.) Explain Masonry Applied Math importance
- 2.) Exhibit professionalism
- 3.) Add whole numbers
- 4.) Subtract whole numbers
- 5.) Multiply whole numbers
- 6.) Divide whole numbers
- 7.) Add common fractions
- 8.) Subtract common fractions
- 9.) Multiply common fractions
- 10.) Divide common fractions
- 11.) Convert inches to decimals
- 12.) Add decimal fractions
- 13.) Subtract decimal fractions
- 14.) Multiply decimal fractions
- 15.) Divide decimal fractions
- 16.) Express fractions and numbers as decimals
- 17.) Compute simple percentage, interest, discounts, lineal and square measure, irregular and circle surface measurement
- 18.) Explain framing square basic principles
- 19.) Compute rectangular solid and cylinder volume
- 20.) Compute board and weight measure
- 21.) Compute square root
- 22.) Demonstrate pythagorean theorem use

Student Assessment Methods:

Tests and quizzes, final test, workbook, participation

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

Richard T. Kreh, Sr. – Masonry Skills – 5th addition
Instructional videos and DVDs

Outline or Statement of Major Course Content:

This course covers the mathematics commonly used in the Masonry trade. Material covered will include: Fractions, percentages, linear measures, area, volume, proportions, powers and roots.

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		
Academic Affairs Standards Committee		
Chief Academic Officer		

Distribution: Original – Administrative Office

Copies: Curriculum Committee Chair, AASC Chair, Transfer Specialist, Originating Faculty Member, Scheduler, Records, Student Services, Learning Center, Library

Revised: October 2006