Course Outline

Course Title: Math for Masons
Semester Course Prefix and Number: MASN 1226
Submitted By:

Old Quarter Course Prefix and Number:
Approval Date:
Revision Date:

Number of Credits: 2
Number of Lecture Credits: 1
Number of Lab Credits: 1
Number of Lab Hours: 
Number of Studio/Demonstration/Internship Credits: 

Semester(s) Offered: 
Class Size: 
Negotiated by AASC on: (date)

Course Purpose Code:
0 – Developmental Courses
1 – Non-transferable, General Education
X 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

MASN 1226
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:

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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