Course Outline

Course Title: Mortar & Concrete
Semester Course Prefix and Number: MASN 1224

Submitted By: 
Approval Date:
Revision Date:

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<th>Number of Credits:</th>
<th>Number of Lecture Credits:</th>
<th>Number of Lab Credits:</th>
<th>Number of Lab Hours:</th>
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<td>2</td>
<td>0</td>
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Semester(s) Offered: 1

Class Size: Negotiated by AASC on: (date)

Number of Lab Hours: 0

Number of Studio/Demonstration/Internship Credits: 0

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:
The development of mortars and cement will be discussed as well as the importance of mortar in head and bed joints. Students will learn to mix mortar for masonry and will also learn the importance of clean material (lime, sand, and water) in mortar and concrete. Students will learn the basics of how to place and finish concrete.

Prerequisites and/or recommended entry skills/knowledge:
Course Prerequisite(s):
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 different types of mortar
2. Explain different types of mixes
3. Explain different mix designs for concrete
4. Explain tempering of mortar
5. Explain admixtures to mortar or concrete

**Student Assessment Methods:**

Tests and quizzes and final test. Mixing of mortar in lab.

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

Richard T. Kreh, Sr. – Masonry Skills – 5th addition

**Outline or Statement of Major Course Content:**

The student will be mixing mortar, laying masonry units with mortar, place and finish concrete.

**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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<tr>
<td>Curriculum Committee</td>
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<td>Academic Affairs Standards Committee</td>
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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