

MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

Course Outline

Course Title: Blueprint Reading and Estimating
Semester Course Prefix and Number: MASN 1221
Old Quarter Course Prefix and Number:

Submitted By: Bob Schroeder
Approval Date:
Revision Date:

Number of Credits: 2
Semester(s) Offered:
Class Size:
Negotiated by AASC on: (date)
Number of Lecture Credits: 0
Number of Lab Credits: 2
Number of Studio/Demonstration/Internship Credits:

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:

The purpose of this course is to introduce the student to reading blueprints and estimating masonry jobs. Students will learn to design and read basic residential construction blueprints, identify symbols, interpret evaluations, interpret scale dimensions, understand floor systems and taper for in-floor drain systems. Students will learn the use of masonry opening schedules as compared to above grade construction with wood materials. Students will learn proper anchor placement. Students will also make a blueprint and a complete material list for two jobs to include cost, labor, and time frame.

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. X 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 blueprint reading importance
2. Identify symbols and abbreviations
3. Explain specifications
4. Interpret scale
5. Define working drawings
6. Interpret plot plan
7. Interpret foundation plan
8. Interpret wall sections
9. Interpret elevations
10. Interpret schedules
11. Interpret details of windows and doors
12. Interpret detail of fireplaces
13. Sketch prospective drawings
14. Draw drafting lines
15. Perform lettering and numbering
16. Exhibit professionalism
17. Explain blueprint reading and estimating accuracy importance
18. Estimate quantities for excavation, concrete and concrete block, girder, and sill
19. Compile material list

Student Assessment Methods:

Tests and quizzes, final test, house print and drawings, workbooks, and participation

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

Masonry Skills, 5th Edition – Richard T. Kreh
Instructional videos and DVD's

Outline or Statement of Major Course Content:

This course offers the basics of reading and drawing blueprints for residential masonry construction. Estimating the material requirements and making up material lists is also covered.

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