

# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

DEPT. CRPT

COURSE NUMBER:1180

NUMBER OF CREDITS: 1

Lecture: 1 Lab: 0 OJT 0

### Course Title:

Construction Math

### Catalog Description:

Construction Math establishes the mathematical skills necessary for estimating materials, performing necessary calculations and conversions necessary for interior and exterior work. Application on linear, square and cubic measurements and their relationship to the construction trades process will be studied.

### Prerequisites or Necessary Entry Skills/Knowledge:

None

### FULFILLS MN TRANSFER CURRICULUM AREA(S) (*Leave blank if not applicable*)

- Goal 1: Communication: By meeting the following competencies:
- Goal 2: Critical Thinking: By meeting the following competencies:
- Goal 3: Natural Sciences: By meeting the following competencies:
- Goal 4: Mathematics/Logical Reasoning: By meeting the following competencies:
- Goal 5: History and the Social and Behavioral Sciences: By meeting the following competencies:
- Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- Goal 7: Human Diversity: By meeting the following competencies:
- Goal 8: Global Perspective: By meeting the following competencies:
- Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- Goal 10: People and the Environment: By meeting the following competencies:

### Topics to be Covered (General)

Concepts of estimating

Geometric quantities, figures and relationships

Analyze construction documents to be calculated.

### Student Learning Outcomes

Solve equations to perform necessary estimating functions and job site calculations.

Work with U.S. and metric units of measurement.

Apply problem-solving strategies to real-life scenarios.

Solve problems related to geometric, algebraic and arithmetic functions.

Solve triangles using right-angle trigonometry in relation to interior and exterior projects.

**Is this course part of a transfer pathway: Yes  No**

Revised Date: 4/29/2024