

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. CRPT

COURSE NUMBER: 1170

NUMBER OF CREDITS: 3

Lecture: 3 Lab: 0 OJT 0

Course Title:

Applied Carpentry Calculations and Estimating

Catalog Description:

Applied Carpentry Calculations and Estimating covers 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

Calculate quantities of items needed for interior and exterior projects

Calculate quantities of items needed for interior and exterior projects

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

***If yes, please list the competencies below**

Revised Date: 1/2022