

Course discipline/number/title: CR 1600: Carpentry Theory I

A. CATALOG DESCRIPTION

1. Credits: 3
2. Hours/Week: 3
3. Prerequisites (Course discipline/number): None
4. MnTC Goals (if any): NA

This course focuses on the properties of building materials, safe use of hand and power tools, and reading blueprints. Traditional and modern building systems will be analyzed and reviewed.

B. DATE LAST REVISED (Month, year): November, 2017

C. OUTLINE OF MAJOR CONTENT AREAS:

1. Hand and power tool safety
2. Identification of building materials
3. Blueprint reading
4. Estimation of materials
5. Building and site lay-out
6. Examination of a variety of building systems
7. Foundations, floors, walls and roof framing
8. Windows and doors

D. LEARNING OUTCOMES (GENERAL): The student will be able to:

1. Demonstrate safe operation of hand and power tools
2. Set up and use a builder's level for elevation and alignment
3. Build batter boards
4. Compare foundation systems and correctly identify all materials
5. Estimate concrete quantities
6. Describe different floor, wall and roof framing systems
7. Decipher header lengths and sizes
8. Demonstrate window and door framing lay-out

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:

Methods may include but are not limited to:

1. Research Assignments
2. Quizzes
3. Exams
4. Classroom Participation

G. RCTC CORE OUTCOME(S) ADDRESSED:

Critical Thinking. Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.

H. SPECIAL INFORMATION (if any): None