

Course discipline/number/title: CR 1622: Carpentry Theory II

A. CATALOG DESCRIPTION

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

This course is a study of interior and exterior finishes. Materials and installation procedures are discussed, explained, compared, and estimated. Building codes, sustainable green building and passive solar systems are presented. As a project, students design and estimate a wood frame deck.

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

C. OUTLINE OF MAJOR CONTENT AREAS:

1. Thermal and sound insulation
2. Exterior siding and finishes
3. Interior wall and ceiling finish
4. Finish flooring
5. Stair construction
6. Doors, windows, and interior trim
7. Cabinetry
8. Passive solar construction
9. Structural design of a wood framed deck

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

1. Determine correct U and R values within a thermal envelope
2. Apply sound insulation designs
3. Estimate vinyl and steel siding materials
4. Select appropriate interior wall and ceiling finishes
5. Explain floor finish options
6. Choose doors, windows, and interior trim
7. Create a kitchen cabinet plan
8. Design a passive solar system
9. Read blueprints and estimate quantities

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. Class 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