

**Course discipline/number/title: CR 1627: Roofing Systems****A. CATALOG DESCRIPTION**

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

**B. COURSE DESCRIPTION:** This course is a study of installation of roofing products. A variety of roof construction, framing and finishes are discussed. Sheathing, roof edge, underlayment, valley tin, flashing and asphalt shingles are installed.**C. DATE LAST REVISED (Month, year):** February, 2025**D. OUTLINE OF MAJOR CONTENT AREAS:**

1. Roofing Tools and Equipment
2. Roof Covering Products
3. Underlayment and Flashing
4. Asphalt Shingles
5. Hips and Valleys
6. Roof Edging
7. Fasteners
8. Ventilation

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

1. Demonstrate safe use of tools and equipment.
2. Demonstrate general carpentry skills.
3. Describe various roof covering products.
4. Install underlayment, roof edge and flashing.
5. Cut and install asphalt shingles.
6. Install roof vents.

**F. LEARNING OUTCOMES (MNTC):** NA**G. METHODS FOR EVALUATION OF STUDENT LEARNING:** Methods may include but are not limited to:

1. Performance on construction tasks
2. Quizzes
3. Exams
4. Class Participation

**H. RCTC CORE OUTCOME(S).** This course contributes to meeting the following RCTC Core Outcome(s):  
**Critical Thinking.** Students will think systematically and explore information thoroughly before accepting or formulating a position or conclusion.**I. SPECIAL INFORMATION (if any):** None