

**Course discipline/number/title: CR 1632: Construction Estimating****A. CATALOG DESCRIPTION**

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

The focus of this course is to develop skills necessary to accurately estimate material and labor costs. Students perform material take-offs and draft estimates for various building projects.

**B. DATE LAST REVISED (Month, year):** November, 2017**C. OUTLINE OF MAJOR CONTENT AREAS:**

1. Types of estimates and formats
2. Concrete foundations
3. Framing
4. Roofing
5. Insulation
6. Drywall
7. Siding
8. Decks
9. Detached garage
10. Professionalism

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

1. Explain different types of estimates
2. Accurately perform material take-offs
3. Estimate labor costs
4. Draft a well-organized, professional estimate
5. Create formulas
6. Estimate total cost of a deck
7. Estimate total cost of a detached garage

**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.

**Personal and Professional Accountability.** Students will take responsibility as active learners for achieving their educational and personal goals.

**H. SPECIAL INFORMATION (if any):** None