

# North Hennepin Community College

## CMSV 2885: Construction Estimating

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course explores the basic techniques and guidelines of estimating. The student will develop skills to prepare cost estimates considering the important aspects of material takeoffs, labor, equipment, and time. Practical, step-by-step cost estimating procedures will be applied to an actual building project.

### B. COURSE EFFECTIVE DATES: 01/09/2012 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. The Estimating Process & Preliminary Procedures
2. Measuring Quantities
3. Pricing
4. Closing the Bid
5. Budget & Elemental Estimating
6. Value Analysis
7. Life-Cycle Costing

### D. LEARNING OUTCOMES (General)

1. Generate a consistent system of actions in preparing construction project cost estimates. (ELO: 2,4)
2. Formulate systematic and sequential plans, monitor plans, and evaluate projects to assure that quality control goals are achieved. (ELO: 2,4)
3. Deduce essential data that is required to prepare cost estimates from construction drawings. (ELO: 2,4)
4. Prepare, develop, and refine individual project estimates in classroom exercises upon an individual and team bases. (ELO: 1,2,4)
5. Evaluate and use computer technology in estimating. (ELO: 2,4)
6. Apply estimating techniques to an actual construction management project. (ELO: 1,2,4)
7. Review, analyze, and interpret construction documents, product, and technical information associated with architectural, structural electrical, fire, HVAC, and plumbing systems. (ELO: 2,4)
8. Evaluate information to determine compliance with specifications and standards. (ELO: 2,4)

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted