South Central College

BDET 1120  Estimating Concepts

Course Outcome Summary

Course Information

Description  This course covers principles of quantity takeoffs, identification of symbols, and computation of materials from a set of commercial construction working drawings utilizing the CSI divisions. (Prerequisites: None)

Total Credits 2
Total Hours 48

Types of Instruction

Instruction Type Credits/Hours
Lecture
Lab

Pre/Co-requisites

None

Institutional Core Competencies

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

Course Competencies

1. Apply an understanding of print reading principles to quantity takeoffs.
   Learning Objectives
   Demonstrate basic procedures in completing quantity takeoffs.
   Define the relationship of prints to estimating.
   Extract print specific information for estimating.

2. Read and interpret architectural, MEP and structural blueprints in commercial construction drawings
   Learning Objectives
   Demonstrate ability to read prints.
   Apply an understanding of drawing annotation.
   Develop an awareness of the building codes in commercial construction drawings.
3. **Demonstrate math skills to effectively complete quantity takeoffs.**
   
   Learning Objectives
   
   - Apply mathematical concepts.
   - Use computational skills with the appropriate technology.
   - Execute mathematical operations with accuracy.

4. **Demonstrate an understanding of the CSI format.**
   
   Learning Objectives
   
   - Define the acronym: CSI.
   - Utilize the various sections of the CSI Master Format.
   - Categorize estimate quantity sheets according to the CSI Master Format.

5. **Demonstrate organizational skills.**
   
   Learning Objectives
   
   - Organize quantity takeoffs using the CSI Master Format.
   - Explain how various construction items are measured in quantity takeoffs.
   - Define problems related to estimates that are disorganized.

6. **Research, access, and apply appropriate informational resources.**
   
   Learning Objectives
   
   - Demonstrates proficiency in personal computer software programs.
   - Use technology to creatively solve problems.
   - Illustrate the ability to seek, find, and utilize appropriate resources.

### SCC Accessibility Statement

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: [www.southcentral.edu/disability](http://www.southcentral.edu/disability)

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