SOUTHEAST COMMUNITY COLLEGE
CONSTRUCTION MANUFACTURING AND TECHNOLOGY DIVISION
Design & Drafting Technology Program
Revision Date: August 26, 2019

I. CATALOG DESCRIPTION

Course Number:	DDRT1350
Course Title:	Estimating for Light Construction
Prerequisite(s):	None
Catalog Description:	You will use your knowledge of light construction materials to calculate the quantities of the materials in a structure. You will apply cost data to the material quantities to calculate a total cost of construction. You will have a better understanding of the estimating profession and the various skills an estimator must possess.
Credit Hours:	2.5
Class Hours:	30
Lab Hours:	23
Total Contact Hours:	53

II. COURSE OBJECTIVES: *Course will:*

A. Introduce a variety of types of estimates.
B. Describe the role of the estimator.
C. Demonstrate the steps used to complete a residential estimate.
D. Discuss building codes and their impact on estimating.
E. Provide commonly used formulas and procedures for estimating.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. Student Learning Outcomes: *Student will be able to:*
- **1.** Discuss the purpose of the different types of estimating.
- **2.** Perform steps in completing a residential estimate.
- **3.** Read and apply the formulas commonly used in residential estimating.
- **4.** List the duties, qualities, and characteristics of an estimator.
- **5.** Use a variety of quantity take-off forms.
- **6.** Interpret information found on construction drawings.
- **7.** Identify materials commonly found on a residential blueprint.
- **8.** Estimate material quantities for residential construction from a blueprint.
- **9.** Apply portions of the building codes for residential construction.
- **10.** Convert pricing information into useable cost data.

B. General Education Learning Outcomes (GELOs)
- **1.** GELO #5: Analytical, Quantitative, and Scientific Reasoning
  Outcome 4: Manipulate formulas, data sets, graphs, tables, etc. in a way to produce a meaningful outcome.

IV. CONTENT/TOPICAL OUTLINE

A. The Estimating Process
B. Excavation
C. Concrete and Reinforcement
D. Masonry
E. Floor Framing
F. Wall Framing

G. Ceiling Framing
H. Roof Framing

V. INSTRUCTIONAL MATERIALS

A. Required Text(s): None
B. Other Resources: Basic Estimating handouts from instructor.
C. Supplies: Calculator with some memory, Pencil and Eraser

VI. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:
1. Lecture with the use of overhead projector and/or whiteboard
2. Classroom demonstration
3. Classroom discussion
4. Video presentation
5. Slide/Computer presentation
6. Field Trips

VII. METHODS OF EVALUATION

A. Methods of evaluation, although determined by the individual instructor, traditionally includes a combination of the following:
1. Attendance and participation
2. Daily assignments
3. Written exams and/or quizzes
4. Performance and observational assessment

VIII. SPECIFIC COURSE REQUIREMENTS

A. Students must meet all of the following:
1. Achieve passing grade of 60% or higher, based on SCC grading scale.
2. Submit own work. Students turning in homework by someone other than themselves will receive a grade of 0% and will be referred to the Dean of Students for further disciplinary action.