

SOUTHEAST COMMUNITY COLLEGE
CONSTRUCTION MANUFACTURING AND TECHNOLOGY DIVISION
Design & Drafting Technology Program
Revision Date: August 22, 2022

I. CATALOG DESCRIPTION

Course Number: DDRT2180
Course Title: Professional Practice - Architectural
Prerequisite(s): DDRT1400 and DDRT2140
Catalog Description: Simulation of circumstances encountered designing and drafting in commercial construction plans.
Credit Hours: 2
Class Hours: 15
Lab Hours: 45
Total Contact Hours: 60

II. COURSE OBJECTIVES: *Course will:*

- A. Develop acceptable plans for residential construction projects
- B. Demonstrate the ability of the student to draft floor plans, foundation plan, exterior elevations, wall sections, details, and site plan for a residential structure

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

- A. Student Learning Outcomes: *Student will be able to:*
 - 1. Create hand sketches and presentation materials for mock client scenarios.
 - 2. Set up and start projects.
 - 3. Understand, create, and manage views and view properties for a building project.
 - 4. Control the placement of model objects with dimensions and constraints.
 - 5. Complete a building design by working with plumbing, electrical, HVAC, floors, ceilings, roofs, stairs, and more.
- B. General Education Learning Outcomes (GELOs)
 - 1. GELO #3: Critical Thinking & Problem Solving
Outcome 1: Collect, identify, interpret and analyze data.

IV. CONTENT/TOPICAL OUTLINE

- A. Construction Project Management
- B. Scheduling
- C. Project Control
- D. Residential Design Project
 - 1. Make Final Presentation to Client
 - 2. Turn in Final Project

V. INSTRUCTIONAL MATERIALS

- A. Required Text(s): Gould, Frederick E., *Managing the Construction Process*
- B. Other Resources: Product Catalogs and Building Code Manuals

VI. METHODS OF PRESENTATION/INSTRUCTION

- A. Methods of presentation typically include a combination of the following:
 - 1. Hands-on lab projects
 - 2. Lab assistance
 - 3. Field Trip(s)

4. Instructional handouts

VII. METHODS OF EVALUATION

- A. Methods of evaluation, although determined by the individual instructor, traditionally includes a combination of the following:
 1. Drawings and Drafting Techniques
 2. Customer Contract and Satisfying Customer Requirements
 3. Grading Criteria:
 - a. Completeness
 - b. Neatness
 - c. Accuracy
 - d. Lineweights
 - e. Lettering standards adhered to
 - f. Drafting standards followed
 - g. According to instructions provided
 - h. Quality of work done in accordance with industry standards
 4. Evaluation will be based on the number of points earned from the total points possible

VIII. SPECIFIC COURSE REQUIREMENTS

- A. Student must meet all of the following to receive a passing grade:
 1. Achieve a passing grade of “D” (60%) or higher, based on SCC grading scale.
 2. Submit own work. Students turning in homework, reports, field notes, or calculations by someone other than themselves will receive 0% and be referred to the Division Dean and Dean of Students for further disciplinary action. Consequences can include failing the course.