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

I. CATALOG DESCRIPTION

Course Number:	DDRT1230
Course Title:	Architectural Print Reading
Prerequisite(s):	None
Catalog Description:	You will learn how to read a set of construction prints for residential and light commercial construction. You will learn the dimensions, notes and symbols commonly used in the industry. You will learn what type of information is found in the prints, who uses the information and why the information is important.
Credit Hours:	2
Class Hours:	30
Lab Hours:	0
Total Contact Hours:	30

II. COURSE OBJECTIVES: *Course will:*

- **A.** Describe the types of lines used in construction documents by appearance and purpose.
- **B.** Identify the style of lettering commonly used in construction documents.
- **C.** Describe the standard sizes of drawing sheets.
- **D.** Identify the typical elements of the title block.
- **E.** Demonstrate how to read an architectural and engineering scale.
- **F.** Identify the symbols, notations, abbreviations, and schedules typically used in construction documents.
- **G.** Describe the industry standards for notes and details.
- **H.** Describe the industry standards for dimensions.
- **I.** Describe the type of information contained in the plans, sections, elevations and details in a set of residential construction documents.
- **J.** Explore the information contained in a set of prints used for residential construction.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

- **A.** Student Learning Outcomes: *Student will be able to:*
  - **1.** List and describe the different types of lines used in residential construction documents.
  - **2.** List and describe the standard sizes of drawing sheets.
  - **3.** Complete a variety of residential title blocks with the appropriate information.
  - **4.** Scale residential construction documents with architectural and engineering scales.
  - **5.** Identify symbols, notations, hatch patterns, abbreviations and schedules typically used in construction documents.
  - **6.** Provide exterior and interior dimensions on a floor plan.
  - **7.** Annotate an exterior elevation, interior elevation, section and construction detail.
  - **8.** Read elevations, sections, plan views, schedules and general notes.
  - **9.** List drawings included in a set of construction documents and the information contained in each drawing.
  - **10.** Identify the need for producing construction details and locate areas in a structure for which details are necessary.
- **B.** General Education Learning Outcomes (GELOs)

1. GELO #3: Critical Thinking and Problem Solving
Outcome 1: Collect, identify, interpret and analyze data.

IV. CONTENT/TOPICAL OUTLINE

A. Drafting Basics
- **1.** Scales and Scaling
- **2.** Line types & Lineweight
- **3.** Lettering & Annotations
- **4.** Symbols
- **5.** Orthographic Projection
- **6.** Dimensioning
- **7.** Detailing & Noting Rules

B. Plan Development
- **1.** Floor Plans
- **2.** Exterior Elevations
- **3.** Cross Sections
- **4.** Wall Sections, Stair Sections & Details
- **5.** Interior Elevations
- **6.** Schedules & Specifications
- **7.** Site Plan
- **8.** Framing Plans
- **9.** Structural Plans
- **10.** Plumbing Plans
- **11.** HVAC Plans
- **12.** Electrical Plans

V. INSTRUCTIONAL MATERIALS

A. Required Text(s): Brown & Dorfmueller, Goodheard-Wilcox, *Print Reading for Construction Residential and Commercial,* (Refer to CID and/or instructor for current edition)

B. Other Resources: Architectural and Engineering Scale

VI. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:
- **1.** Lecture
- **2.** Demonstration
- **3.** Classroom discussion
- **4.** Instructional Handouts
- **5.** Power Point Presentations
- **6.** Videos
- **7.** 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 to receive a passing grade:

1. Achieve a passing grade of 60% or higher, based on SCC grading scale.

2. Submit your own work. Students turning in information or homework completed by someone other than themselves will receive a grade of 0% and will be referred to the Dean of Students for further disciplinary action.

3. Attend every class period. Attendance will be taken in every class or lab. It is the responsibility of the student to master the information covered in any missed classes. Students participating in a college recognized activity will not be considered absent.

4. Demonstrate the attitude, skill and character commensurate with industry standards.

5. Respect college property. Any intentional damage to college property will not be tolerated and may result in punitive action.