

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

I. CATALOG DESCRIPTION

Course Number: DDRT1110
Course Title: Industrial Print Reading
Prerequisite(s): None
Catalog Description: A study of the application of communication and documentation of basic design skills using industry accepted standards and practices.
Credit Hours: 2
Class Hours: 30
Lab Hours: 0
Total Contact Hours: 30

II. COURSE OBJECTIVES: *Course will:*

A. Discuss different aspects of industry blueprint standards.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. Student Learning Outcomes: *Student will be able to:*

1. Read and interpret information shown on several types of drawings and assemblies.
2. Identify drafting standards.
3. Read and interpret mechanical and architectural blueprints.

B. General Education Learning Outcomes (GELOs)

1. GELO #5: Analytical, Quantitative and Scientific Reasoning
Outcome 1: Understand and create logical arguments supported by quantitative and scientific evidence and communicate those arguments in a variety of formats.

IV. CONTENT/TOPICAL OUTLINE

- A. Introduction to Drafting Concepts
- B. Lettering, Dimensioning & Freehand Sketching
- C. Orthographic Projection
- D. Detail & Assembly Drawings
- E. Measurement Tools
- F. Dimensioning & Tolerancing
- G. Sectional Views & Pictorial Drawings
- H. Title Blocks, List of Materials & Drawing Changes
- I. Drawings for Manufacturing

V. INSTRUCTIONAL MATERIALS

A. Required Text(s):

1. Madsen and Madsen, *Engineering Drawing and Design*, (Refer to CID and/or instructor for current edition)
2. Brown, *Print Reading for Industry*, (Refer to CID and/or instructor for current edition)
3. Liebhlich, *Drawing Requirements Manual*, (Refer to CID and/or instructor for current edition)

VI. METHODS OF PRESENTATION/INSTRUCTION

- A.** Methods of presentation typically include a combination of the following:
 - 1. Lectures
 - 2. Classroom demonstrations
 - 3. Classroom discussions
 - 4. Instructional handouts
 - 5. Video presentations
 - 6. Power Point presentations
 - 7. Speaker(s)
 - 8. Field Trip(s)

VII. METHODS OF EVALUATION

- A.** Methods of evaluation typically include a combination of the following:
 - 1. Homework & In-Class Activities
 - 2. Quizzes
 - 3. Tests
 - 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.
 - 3. Demonstrate attitude, skills, and character commensurate with industry standards.
 - 4. All program policies of the Computer Aided Design Drafting program will be strictly enforced.
 - 5. Intentional damage to college property will not be tolerated and may result in punitive action, such as being removed from the program.
 - 6. All cell phones will be turned off during class/lab time. If this becomes a problem, the instructor may consider the delinquent student absent.
- B.** Attendance: Students are required to attend all classes. Any student absent more than 12 class hours for a lab or 6 hours for lecture class will have their final course grade reduced one grade point. (Example: A reduced to a B)