

SOUTHEAST COMMUNITY COLLEGE
CONSTRUCTION MANUFACTURING AND TECHNOLOGY DIVISION
Building Construction Technology Program
Revision Date: October 30, 2024
[Syllabus Statements](#)

I. CATALOG DESCRIPTION

Course Number:	CNST1222
Course Title	Site Layout and Blueprint Reading
Prerequisite(s):	None
Catalog Description	Introduction to blueprint reading for residential and commercial construction documents and code resources that govern the design and placement of structures. As well as field application and introduction of construction site layout tools and techniques.
Credit Hours:	3
Class Hours:	30
Lab Hours:	45
Total Contact Hours:	75

II. COURSE OBJECTIVES: *Course will:*

1. Learn basic skills required to read and draw blueprints for residential and light commercial construction projects.
2. Understand correct measuring, planning, assembly, and estimating of building components.
3. Understand how sequential building stages result in quality construction.
4. Identify and name all parts of the building level and its uses
5. Introduce the procedures in site layout and excavation in accordance with local and national building codes

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. STUDENT LEARNING OUTCOMES: *Student will be able to:*

1. Read construction documents for residential and light commercial construction projects.
2. Understanding the planning of a building.
3. Understand the building code requirements for kitchen, bathroom, windows and doors.
4. Demonstrate the ability to layout and stake a simple foundation to correct dimensions within industry acceptable tolerances.

B. GENERAL EDUCATION LEARNING OUTCOMES

1. Information Literacy: The ability to identify the need for information; identify and assess sources; and interpret, synthesize, organize and use information within legal and ethical guidelines. *(GELO 5)*

IV. CONTENT/TOPICAL OUTLINE

A. Introduction

- Purpose of prints, common references, common building information

B. Building design, plan, and specifications

- Factors which influence building design, buildings shapes and styles, plan reproduction, specs
- C. Building codes, zoning regulations, building permits, and inspections
- D. Understanding the language of blueprints
 - Types of lines, architect scale, symbols and abbreviations, modular measurements
- E. Makeup of residential and commercial plans
 - Plot and site plans, foundation and basement plans, floor plans, exterior elevations, section views, details and framing plans
- F. Review Floor plans
 - Room arrangements, building code requirements
- G. Kitchen and bathrooms
 - Room arrangements, building code requirements
- H. Windows and doors
 - Schedules, building code requirements
- I. Plumbing
 - Drainage, vent systems, traps, plumbing fixtures rough-ins, water heaters, building code requirements
- J. Builders Level
 - Parts, uses, proper care
- K. Site layout
 - Batter boards, layout equipment, excavation, footing, codes, soil types

V. INSTRUCTIONAL MATERIALS

- A. **Required Text(s):** NCCER, *General Carpentry*, (Refer to CID/or instructor for current edition)
- B. **Supplies:**
 1. Architects scale
 2. Calculator
 3. 100' tape measure
 4. 25' tape measure

VI. METHODS OF PRESENTATION/INSTRUCTION

- A. Methods of presentation typically include a combination of the following:
 1. Lecture
 2. Classroom demonstration
 3. Classroom discussion
 4. Hands-on lab projects
 5. Lab demonstrations
 6. Lab assistance
 7. Video presentation
 8. Speaker(s)
 9. Field Trip(s)
 10. Instructional handouts

VII. METHODS OF EVALUATION

- A. Methods of evaluation typically include a combination of the following:
 1. Assignments
 - a. Due dates are provided with assignment
 - b. Complete projects on time
 - c. Points are deducted if a project is late
 2. Tests

3. Evaluation will be based on the number of points earned from the total points possible.
4. Grading will be in compliance with the SCC Grading Scale:

95 – 100 = A+	80 – 84 = B	65 – 69 = D+
90 – 94 = A	75 – 79 = C+	60 – 64 = D
85 – 89 = B+	70 – 74 = C	Below 60 = F

VIII. SPECIFIC COURSE REQUIREMENTS

Student must meet all of the following to receive a passing grade:

- A. Student must meet all of the following to receive a passing grade:
 1. Achieve a passing grade of “C” (70%) 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.