

SOUTHEAST COMMUNITY COLLEGE
ADVANCED TECHNOLOGIES & SKILLED TRADES DIVISION
Building Construction Technology Program
Revision Date: November 2025

I. CATALOG DESCRIPTION

Course Number: CNST2634
Course Title: Drafting II
Prerequisite(s): CNST1326 or by Permission
Catalog Description: This course introduces students to light commercial construction through the study of materials, methods, and the International Building Code, with an emphasis on planning and design responsibility. Students will use Revit to create, edit, and print a complete set of construction drawings, applying graphic representation techniques and integrating code requirements across floor plans and related documents.
Credit Hours: 2.5
Class Hours: 23
Lab Hours: 45
Total Contact Hours: 68

II. COURSE OBJECTIVES: *Course will:*

- A. Select and create schedules, appropriate windows, doors, frames, and room finishes.
- B. Demonstrate how to draw to scale a complete floor plan, basement/foundation plan, section and details.
- C. Identify and list construction drawings required for a light commercial structure.
- D. List the general requirements for the completion of the drawings.
- E. Using the *Uniform Building Code* book, make decisions about allowable floor square footage size, construction materials, occupancy group, maximum height, required fire protection in exterior walls, and acceptable design of area separation walls.
- F. Identify different types of doors and windows and corresponding door and window frames.
- G. Identify all symbols, list all required information, and correct drawing procedures for a light commercial floor plan and footing, foundation plan, section views, elevation views and details.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

- A. Student Learning Outcomes: *Student will be able to:*
 - 1. Interpret codes and their relationship to construction.
 - 2. Complete window and door schedules.
 - 3. Calculate stair data stairwell openings.
 - 4. Draw a commercial floor, foundation plan, elevations and details.
 - 5. Dimension with symbols, notes and related construction to their drawings.
- B. General Education Learning Outcomes (GELOs)
 - 1. GELO #3: Critical Thinking & Problem Solving
Outcome 5: Acquire and integrate knowledge and construct relationships across disciplines.

IV. CONTENT/TOPICAL OUTLINE *(course outline may provide more detailed information)*

- A. Schedules
 - 1. Door, window, hardware, fixture and appliance, specific writing, room finish

- B. Floor Plan
 - 1. Layout, plan identifications, material symbols, graphic representations and standards
- C. Basement/Foundation Plan
 - 1. Layout, plan identifications, material symbols, graphic representations and standards
- D. Construction Details
 - 1. Transverse and longitudinal sections, construction details
- E. Elevations
 - 1. Exterior and interior
- F. Site Visitation
 - 1. Visit light commercial construction sites to gather ideas

V. INSTRUCTIONAL MATERIALS

- A. Required Text(s): *NCCER Core 6th Edition ISBN-10: 0-13-748334-1* NCCER General Carpentry ISBN- 10:0137699972 (Refer to CID and/or instructor for current edition)
- B. Supplies: Calculator and Architect's scale

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. Video presentation
 - 4. PowerPoint presentations
 - 5. Speaker(s)
 - 6. Field Trip(s)
 - 7. Instructional handouts

VII. METHODS OF EVALUATION

- A. Methods of evaluation, although determined by the individual instructor, traditionally includes a combination of the following:
 - 1. Tests and Quizzes
 - a. Drawings Floor plan
 - b. Foundation plan
 - c. Construction Details
 - 2. Lab Performance Evaluation
 - 3. General Criteria
 - 4. Quantity of Drawings
 - 5. Design and Performance

VIII. SPECIFIC COURSE REQUIREMENTS

- 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.
 - 4. Intentional damage to college property will not be tolerated and may result in punitive action, such as being removed from the program.
 - 5. 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.** All program policies of the Building Construction Technology program will be strictly enforced.