

SOUTHEAST COMMUNITY COLLEGE
ADVANCED TECHNOLOGIES & SKILLED TRADES DIVISION
Building Construction Technology Program
Revision Date: April 2026

I. CATALOG DESCRIPTION

Course Number: CNST2534
Course Title: House Framing
Prerequisite(s): CNST1460
Catalog Description: This course focuses on the foundational stages of residential construction, from preparing the site and foundation to framing the structure. Students will gain experience installing mudsills and assembling floor systems. Instruction also covers assembling interior and exterior wall systems, framing a structural roof system, and installing exterior doors and windows. By the end of the course, students will be able to complete the structural framework of a house.
Credit Hours: 6.0
Class Hours: 30
Lab Hours: 180
Total Contact Hours: 210

II. COURSE OBJECTIVES: *Course will:*

- A. Prepare the house site foundation to exact specified dimensions in preparation for the wood frame.
- B. Build the girder, put down mudsill, layout rim joists and set T.J.I.'s, while allowing for stair opening
- C. Put down the subfloor
- D. Build all headers and corners and assemble and stand walls, and apply exterior wall sheathing
- E. Place blocking
- F. Put in ceiling joists

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

- A. Student Learning Outcomes: *Student will be able to*
 - 1. Size solid sawn framing members for floor joists, ceiling joists and rafters.
 - 2. Understanding wall R-Values, wall construction and OVE (optimum value engineering) part of green build.
 - 3. Understand floor joist layout and its relativity to wall layout and other trades.
- B. General Education Learning Outcomes (GELOs)
 - 1. GELO #5: Analytical, Quantitative, and Scientific Reasoning
Outcome 4: Manipulate formulas, data sets, graphs, tables, etc. in a way to produce a meaningful outcome.

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

- A. Foundation Preparation
 - 1. Site clean-up, materials inventory, garage clean-up
- B. Floor and Deck Framing
 - 2. Mud sill, band joist and girder, openings, Squash Blocks and blocking, L.V.L. joists, assembly, deck application
- C. Wall and Ceilings

3. Exterior walls and headers, interior walls and headers, blocking, sheathing, ceiling joists

V. INSTRUCTIONAL MATERIALS

A. Required Text(s): None

B. Supplies/Tools Required by the Building Construction Program:

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|-------------------------------|-------------------------------------|
| 1. 16 oz plumb hammer | 15. Stanley steel tape |
| 2. Stanley combination square | 16. #1 and #2 Phillips screwdrivers |
| 3. Stanley framing square | 17. Straight blade screwdriver |
| 4. Coping saw | 18. Nail apron |
| 5. Stanley block plane | 19. Drill bit index |
| 6. Stanley wood chisels | 20. 3/8" cordless drill |
| 7. Large oil stone | 21. Wonder bar |
| 8. Nail sets | 22. Cats paw |
| 9. Stanley putty knife | 23. Sanding block |
| 10. Stanley utility knife | 24. #5 and #9 vix bits |
| 11. Chalk box | 25. 24" carpenter's level |
| 12. Compass scribe | 26. 26" handsaw |
| 13. Pliers | |
| 14. Sliding T-bevel | |

VI. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:

1. Hands-on training
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. Assignments
 - a. Due dates are provided with assignment
 - b. Complete projects on time
 - c. Points are deducted if a project is late
2. Quality of work
3. Attentiveness
4. Work Ethic
5. Leadership
6. Safety Practices
7. Problem solving and decision making with minimal assistance

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.