

# Minnesota State College Southeast

## CARP 1125: Carpentry Lab 1

### A. COURSE DESCRIPTION

Credits: 5

Lecture Hours/Week: \*.\*

Lab Hours/Week: 10

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is used to practice the theory learned in Framing Theory I, Concrete Construction, and Cabinetry 1. This will cover a number of projects pertaining to footings, foundation, flatwork, wall framing, roof design, and cabinetry. (Prerequisite: none) (5 credits: 0 lecture/5 lab)

**B. COURSE EFFECTIVE DATES:** 02/06/2018 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Awareness of the Importance of Safety
2. Hands-on Relation to Other Classes
3. Additional Working Time on Carpentry and Concrete Skills

**D. LEARNING OUTCOMES (General)**

1. Exhibit and observe safety rules
2. Prepare footing base
3. Lay out foundation walls
4. Lay out foundation wall openings
5. Assemble foundation walls
6. Brace foundation walls
7. Erect foundation walls
8. Waterproof foundation walls
9. Install drain tile
10. Pour and finish flatwork
11. Demonstrate team work
12. Install columns
13. Install girders
14. Install bearing walls
15. Install sills
16. Lay out header joist
17. Install header joist
18. Install joist
19. Install cantilever joist
20. Frame floor openings
21. Install solid blocking
22. Install bridging
23. Install squash blocks
24. Define balloon framing
25. Locate walls
26. Determine header lengths
27. Lay out wall plates
28. Build headers
29. Cut shoulders
30. Cut cripples
31. Cut rough sills
32. Build partition trough
33. Build corner posts
34. Assemble wall components
35. Apply wall sheathing
36. Raise walls
37. Apply top plate
38. Install wall braces
39. Install backing
40. Install associated trade's framing
41. Install partition backing
42. Install wall accessories backing
43. Frame bay window
44. Frame bow window

45. Install flush header
46. Install hip roof joist
47. Install gable roof joist
48. Install two way joist system
49. Install inverted header
50. Frame ceiling opening
51. Install cathedral ceiling
52. Common frame hips and valleys

**E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted