

Course: Carpentry	Grade: 9-12
Instructor:	CIP Code: 460201
Unit: Unit 4	Title: Floor Framing
<p>Knowledge, Content and Skills: Describe platform, balloon, and post-beam framing, identify framing members, install columns, girders, and sills, layout and install joists, frame openings in floors, install bridging and subflooring. Describe how termites and fungi destroy wood, and methods of prevention.</p>	
<p>Performance objective: Students will be able to: Install columns, girders, sill, subfloor, Measure, cut and crown joists, Hand-nail 12d and 8d nails. Square the floor system using Pythagorean Theorem (3-4-5 method). Apply bridging and subfloor to the joists.</p>	
<p>Competency: 3. Demonstrate use of appropriate personal safety equipment and proper use of emergency equipment. 9. Demonstrate proper safety and use of hand tools. 10. Demonstrate proper use and safety of common power tools. 13. Recognize elements and symbols of blueprints and drawings. 15. Identify floor, sill framing, support member and demonstrate accurate cutting and installation of joists (floor openings; chimneys, stairwells, pipe chasing etc.) 16. Describe how to install a subfloor.</p>	
<p>Common Core: Listening: Students will demonstrate the ability to listen and view critically for variety of purposes. Reading Informational Texts Competency: Students will demonstrate the ability to comprehend, analyze and critique a variety of increasingly complex print and non-print informational texts.</p>	
<p>Tools, supplies and reference materials: Level, chalk-line, framing hammers, framing square, circular saw, 12d and 8d nails, construction adhesive, framing materials, subfloor, and bridging. Career Connections Project Book 3 pages: 117- 165.</p>	
<p>Methods of instruction: Demonstration on how to install framing members, lecture on floor framing using power point presentations and the text book. Field trip to a jobsite or the Union Training Hall to see the task performed by professional carpenters.</p>	
<p>Task analysis or activities: Students will identify the framing member needed, measure and use the skill saw to cut sills and joists, plates and studs to length, hand-nail 12d and 8d nails, and install subflooring with construction adhesive and sheathing nails.</p>	
<p>Evaluation: Students will be graded on their use of time, safety methods, quality of work, cleaning and organization of their work area, interaction with other students, and employability skills. Project evaluations are on pages: 166-172.</p>	
<p>Instructors Notes:</p>	

