

**Cabinet Making**

Teacher: Roger Bovee

**September 2020**

Content	Skills	Learning Targets	Standards	Assessment	Resources & Technology
<p><b>CEQ:</b>  <b>How can you build a simple cabinet with no prior knowledge of woodworking?</b></p> <p><b>UEQ:</b>  <i>How do you draw a set of plans for building a piece of furniture?</i></p>  <p><b>A: Drawing types</b></p> <p>A1. Three view                      A1: Detail drawing                      A2: Cabinet Oblique                      A3: Solid model drawing</p>	<p><b>A: Drawing types</b></p> <p>A1: Draw a three view drawing of project.                      A1: Align views of a drawing in proper locations with each other.                      A2: Draw details of drawers.                      A2: Draw a cabinet oblique of project.                      A3: Draw with computer a solid model of project.                      A1-A3: Properly constrain all drawings</p>	<p><b>A: Drawing types</b></p> <p>A1-3: I can choose the proper drawing type for my project.                      A1-3: I can accurately represent all parts of my project in the drawing type of my choice                      A1-3: I can accurately constrain all parts of my project.</p>		<p><b>A: Drawing types (student chooses one of the following)</b></p> <p>CFA A1: A computer aided or pencil drawn plan of project.                      CFA A2: A cabinet oblique pencil drawn sketch of project.                      CFA A3: A project drawing using solid modeling</p>	<p><b>A: Drawing types</b></p> <p>Internet and project plan library in shop                      Oblique drawing paper                      Graph paper                      Straight edges and rulers</p>

<p>UEQ: <i>What are different species of wood?</i> </p> <p><b>B: Wood types</b></p> <p>B1. Deciduous B2. Coniferous B3. Laminate B3. Composites</p>	<p><b>B: Wood types</b></p> <p>B1: Identify hardwoods available in the woodshop B2: Identify the softwood available in the woodshop B3: Identify the veneer laminate and composite materials available in today's woodworking industry.</p>	<p><b>B: Wood types</b></p> <p>B1-3: I can identify and sort the different wood types into three groups: hardwood, softwood, and laminate/composite</p>	<p><b>B: Wood types</b></p> <p>CFA B1-3: 10 point test on various types of wood and laminates.</p>	<p><b>B: Wood types</b></p> <p>wood samples from each category</p>
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<p>UEQ: <i>How do you estimate the cost of a wood project?</i> </p> <p><b>C: Estimating Material Cost</b></p> <p>C1: Board footage C2: Bill of materials C2: Waste estimating</p>	<p><b>C: Estimating Material Cost</b></p> <p>C1: Calculate the board footage C2: Write a bill a materials C2: Calculate the estimated cost of the project.</p>	<p><b>C: Estimating Material Cost</b></p> <p>C1: I can calculate board footage from a variety of shapes of wood. C2: I can create and complete a bill of materials C3: I can estimate the cost of the project to accurately include the materials necessary to complete the project.</p>		<p><b>C: Estimating Material Cost</b></p> <p>CFA C1: Written bill of materials for a shop project. CFA C2: Estimated cost of the project.</p>	<p><b>C: Estimating Material Cost</b></p> <p>C1-2: <a href="#">A bill of materials form</a></p>
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**October**

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEQ: <i>How are hand and power tools used in the woodshop?</i> </p> <p><b>D: Hand and Power tool operation</b></p> <p>D1. Measuring tools D1. Sawing tools D1. Cutting tools D1. Drilling tools D1. Sanding tools D1. Fastening tools</p>	<p><b>D: Hand and Power tool operation</b></p> <p>D1: Identify hand tools and correct application of each tool. D1. Master measuring to the nearest 1/16 of an inch.</p>	<p><b>D: Hand and Power tool operation</b></p> <p>D1: I can accurately identify and name hand tools from the following categories: measuring tools, sawing tools, cutting</p>	<p><b>D: Hand and Power tool operation</b></p> <p>CSA D1: 10 point hand tool identification test CFA D1. After the instructor demonstrates the tool, a student is asked to</p>	<p><b>D: Hand and Power tool operation</b></p> <p>D1: hand tools from the woodshop D1: tape measures and labeled wood samples E1: access to the</p>

<p>E1. Table saws E1. Compound mitre saws E1. Wide Belts Sanders E1. Edge Sanders E1. Routers &amp; Shapers E1. Band saw E1. laser engraving E1. CNC router/lathe</p>	<p>D1. Identify fasteners and machine tooling E1: Identify power tools and correct application of each tool.</p>	<p>tools, drilling tools, sanding tools, and fastening tools. D1: I can use a tape measure to accurately measure various pieces of wood to the nearest 16th of an inch. E1: I can accurately identify and name power tools from the following list: Table saw, miter saw, wide-belt sander, edge sander, routers and shapers, band saws, laser engraving, and CNC router/lathe.</p>	<p>re-demo the tool. CFA D1: Students use a tape measure to accurately measure and cut a board during instructor demonstrations. CSA D1: 10 point power tool identification test.</p>	<p>woodshop power tools</p>
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<p>UEQ: <i>What safety rules should followed in a woodshop?</i> </p> <p><b>F: Woodshop safety</b></p> <ul style="list-style-type: none"> <li>F1. Tool operation</li> <li>F2. Eye and ear protection</li> <li>F3. Proper clothing</li> </ul>	<p><b>F: Woodshop safety</b></p> <ul style="list-style-type: none"> <li>F1. Recognize potential hazards</li> <li>F2. Demonstrate proper tool set-up</li> <li>F3. Follow all shop safety rules</li> <li>F3. Respect others and property.</li> </ul>	<p><b>F: Woodshop safety</b></p> <ul style="list-style-type: none"> <li>F1-3: I can safely operate all machines and tools in the woodshop.</li> <li>F1-3: I can recognize unsafe machine set-up and operation.</li> <li>F3: I can follow all shop safety rules and respect property.</li> </ul>	<p><b>F: Woodshop safety</b></p> <ul style="list-style-type: none"> <li>CSA F1-F3: Multiple choice safety test.</li> <li>CFA F1-F3: Correct test and discuss answers to the safety quiz. Sign/date</li> <li>CFA F1-F3: Process Rubric assessment</li> </ul>	<p><b>F: Woodshop safety</b></p> <ul style="list-style-type: none"> <li>F1: <a href="#">Woodshop safety test handout.</a></li> <li>F1: <a href="#">Process Rubric</a></li> </ul>
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<p>UEQ: <i>How do you fabricate a woodshop project?</i> </p> <p><b>G: Fabrication</b></p> <ul style="list-style-type: none"> <li>G1. Gluing wood panels</li> <li>G2. Correct wood joints</li> <li>G2. Assembling cases or body of project</li> <li>G3. Door construction</li> <li>G4. Drawer construction and install.</li> </ul>	<p><b>G: Fabrication</b></p> <ul style="list-style-type: none"> <li>G1. Glue top of project and panels</li> <li>G2. Select the correct assembly process</li> <li>G2. Cut joints to assemble project</li> <li>G3. Calculate the correct door size.</li> <li>G4. Identify the drawer slides and sizes</li> <li>G4. Build a simple drawer.</li> </ul>	<p><b>G: Fabrication</b></p> <ul style="list-style-type: none"> <li>G1: I can prepare wood pieces for proper glue up procedure.</li> <li>G1: I can use clamps to glue up pieces of wood into large panels.</li> <li>G2: I can recognize what joint works best in a certain application and prepare a piece of wood for that joint.</li> <li>G3: Using the above skills and previously learned power tool skills, I can create a door to fit my project properly.</li> <li>G4: I can build a drawer using the construction techniques taught in class.</li> </ul>	<p><b>G: Fabrication</b></p> <p>CFA G1-G4 Bi-weekly working grades are given based on the Progress Rubric.</p> <p>CSA G1-G4: Final grade is based on Product rubric</p>	<p><b>G: Fabrication</b></p> <p>G. Students work with a partner or a group as they fabricate the project.</p> <p>G1-4: <a href="#">The Progress Rubric</a></p> <p>G1-4: <a href="#">The Product Rubric</a></p> <p><a href="#">Cabinet Instructions</a></p>
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**November**

Content	Skills	Learning Targets	Assessment	Resources & Technology
<p>UEO: <i>What type of finishes are applied to Cabinets?</i></p>				

 <b>H: Finishes</b>  H1. Sanding sealers H2. Varnish	<b>H: Finishes</b>  H1-H2 Apply a finish to the project.	<b>H: Finishes</b>  H1-H2: I can apply the finish in the proper order and manner.	<b>H: Finishes</b>  CSA H1-2: A final grade will be given to the project based on the product rubric.	<b>H: Finishes</b>  H1-2: <a href="#">the Product Rubric</a>
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