

Custom Woodworking – TWJ3E

Course Information & Evaluation

This course enables students to further develop knowledge and skills related to the planning, design, and construction of residential and/or commercial cabinets and furniture. Students will gain further experience in the safe use of common woodworking materials, tools, equipment, finishes, and hardware, and will learn about the entrepreneurial skills needed to establish and operate a custom woodworking business. Students will also expand their awareness of health and safety issues and environmental and societal issues related to woodworking, and will explore career opportunities that may be pursued directly after graduation.

PREREQUISITE: Custom Woodworking, Grade 11, Workplace Preparation

<p>Overall Expectations</p> <p>Fundamentals</p> <p>A1. describe the features and applications of materials and processes used in custom woodworking;</p> <p>A2. demonstrate an understanding and safe use of tools, equipment, and techniques for custom woodworking;</p> <p>A3. use correct terminology to describe woodworking materials, tools, equipment, processes, and related concepts.</p> <p>Design, Layout, and Planning Skills</p> <p>B1. apply a design process and other problem solving processes and techniques when planning a variety of woodworking projects, taking into account design principles, safety standards, and other relevant factors;</p> <p>B2. prepare and interpret sketches and/or working drawings for a variety of woodworking projects;</p> <p>B3. plan efficient and effective fabrication and assembly of residential and/or commercial woodworking projects;</p> <p>B4. apply the mathematical skills required in the design and construction of woodworking projects.</p> <p>Fabrication, Assembly, and Finishing Skills</p> <p>C1. fabricate and assemble residential and/or commercial custom woodworking projects safely, accurately, and efficiently;</p> <p>C2. prepare surfaces and apply finishing products, trim, and hardware correctly and safely.</p> <p>Technology, the Environment, and Society</p> <p>D1. demonstrate an understanding of the environmental effects of the woodworking industry, and ways of reducing harmful effects;</p> <p>D2. demonstrate an understanding of how the woodworking industry and society affect each other.</p> <p>Professional Practice & Careers</p> <p>E1. explain and follow health and safety regulations and practices specific to woodworking;</p> <p>E2. describe the knowledge and skills important for success in a custom woodworking business;</p> <p>E3. demonstrate an understanding of careers in the custom woodworking industry, and the skills, education, and training required for these careers.</p>	<p>Strands/Units Topics</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">1. Power Tool Uses and Safety</td> <td style="width: 50%;">6. Cabinet Material Uses</td> </tr> <tr> <td>2. Power Machine Uses and Safety</td> <td>7. Finishing Techniques</td> </tr> <tr> <td>3. Shop Procedure and Safety</td> <td>8. Research the Cabinet Industry</td> </tr> <tr> <td>4. Project Planning, and Cost Estimating</td> <td>9. Program and Use of CNC Router</td> </tr> <tr> <td>5. Cabinet Joint Techniques</td> <td>10. Summatives: (2)</td> </tr> </table> <p>Course Text and Reference Resources</p> <p>Modern Carpentry by William Wagner Goodheart-Willcox Co.</p> <p>Online resources, and Technical resources</p> <p>Assessment & Evaluation Policy</p> <p>Refer to the attached SWL Assessment and Evaluation Policy April 2011</p> <p>Attendance Policy</p> <p>Students are responsible for catching up on class notes and completing any assignments or tasks involving equipment for which they were absent. <i>It is up to the students to ask the instructor what they missed when they return.</i> Parents will be contacted for any student who skips class. After three such skips, the student will be referred to the Vice-Principal.</p> <p>70% Formative Evaluation</p> <p>Student evaluation is based on the Overall Expectation found in the Ontario Curriculum using various forms, such as, but, not limited to, quizzes, tests, assignments, projects, presentations, safety practices, and activities.</p> <p>30% Summative Evaluation</p> <p>Each student will complete <u>two</u> summative projects representing 30% of their mark.</p> <p>Certain forms of these summative evaluations (exams, final tests, performance based tasks, etc.) are time sensitive. This means they must be completed at and within a specific time. Students <u>must</u> be present for these summative evaluations. Any absence will result in a mark of zero, unless validated by an official certificate. (ex. Medical Certificate). Students and parents will be informed well in advance of summative evaluation dates.</p>	1. Power Tool Uses and Safety	6. Cabinet Material Uses	2. Power Machine Uses and Safety	7. Finishing Techniques	3. Shop Procedure and Safety	8. Research the Cabinet Industry	4. Project Planning, and Cost Estimating	9. Program and Use of CNC Router	5. Cabinet Joint Techniques	10. Summatives: (2)
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<p>Classroom Expectations</p> <p>1. Students are expected to be willing and active participants in all course activities. This includes completing all assignments both on time and with sufficient effort, and honoring all of their commitments.</p> <p>2. Students will contribute to a positive learning environment by: • practicing safe work habits at all times • being respectful to others and respecting their property • treating all equipment with care and ensuring proper knowledge of its operation • reporting unsafe or hazardous situations to the instructor • reporting software or equipment problems to the instructor • cleaning up their workspace and putting everything away before they leave the class* Electronic storage devices, headphones and open toed shoes cannot be used in the shop areas * No food or drink is permitted in any of the equipment areas.</p>											