

# WOODWORKING

## Course Abstract

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Course Abstract: Discover Woodworking</b> | This course is designed to give all students a wide variety of woodworking experiences through the making of several individual projects. Each student, by using woodworking tools, equipment, understanding materials, expressing creative design, and working in a welcoming classroom environment, will make meaningful projects of their own. Projects may include elements of pyrography (wood burning), painting, etching, carving, laser burning, CNC router, inlays/accents and other forms of embellishments. Further opportunities for students will be introduced in the area of lathe turning to include spindle turning techniques and, for the motivated student, bowl turning. Introduction to Woodworking foremost instructs students in safe working techniques and habits resulting in meaningful projects that will be enjoyed for decades. |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

This course is designed to give all students a wide variety of woodworking experiences through the making of several individual projects. Each student, by using woodworking tools, equipment, understanding materials, expressing creative design, and working in a welcoming classroom environment, will make meaningful projects of their own. Projects may include elements of pyrography (wood burning), painting, etching, carving, laser burning, inlays/accents and other forms of embellishments. Further opportunities for students will be introduced in the area of lathe turning to include spindle turning techniques and, for the motivated student, bowl turning. Introduction to Woodworking foremost instructs students in safe working techniques and habits resulting in meaningful projects that will be enjoyed for decades. This course fulfills the Fine Arts requirement for graduation.

## Primary Resources

Teacher developed materials.

## Units

Safety

|              |        |
|--------------|--------|
| <b>Units</b> | Safety |
|--------------|--------|

## Safety

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Unit Focus:</b>                              | In this unit, students will learn how to safely use a variety of hand and power tools in a shop-based environment. Students will take safety tests to ensure that they can work in a safe and respectful manner.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Duration:</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Competencies &amp; Standards:</b>            | <b>Competencies:</b> <ul style="list-style-type: none"> <li>Select</li> </ul> <b>Standards:</b> <ul style="list-style-type: none"> <li>Select</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Vision of a Learner</b>                      | MHS 1. I am open to new possibilities and ask questions to help me understand. (Curious)<br>MHS 2. I gather resources from diverse, relevant, and credible sources to solve problems or complete tasks. (Curious)<br>MHS 3. I consider the impact of my actions on others. (Connected)<br>MHS 4. I use interpersonal skills to build positive relationships and an inclusive environment. (Connected)<br>MHS 5. I consider multiple perspectives from my school, local, national, global and digital communities and respect perspectives that differ from my own (Connected)<br>MHS 6. I create and use a plan to guide my own academic, career, and social emotional development. (Prepared)<br>MHS 7. I find or choose the most appropriate way to organize my thoughts and communicate my ideas based on the purpose and audience. (Prepared)<br>MHS 8. I use my knowledge about myself to advocate for my needs and make responsible decisions. (Resilient)<br>MHS 9. I develop and evaluate multiple ways to solve problems or complete tasks in order to persevere to meet goals and expectations. (Resilient)<br>MHS 10. I actively invest my time and energy to benefit my communities (Dedicated) |                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Long-Term Transfer Goals</b>                 | Students will be able to independently use their learning to... <ul style="list-style-type: none"> <li>Following safety procedures and using personal protective equipment will reduce the risk of injury. (T1)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Understandings &amp; Essential Questions</b> | Students will understand that... <ul style="list-style-type: none"> <li>Students will be able to identify and implement proper safety in a work environment, including working as a team. (U1)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Students will keep considering... <ul style="list-style-type: none"> <li>What are the safety concerns to be considered when working in a lab setting in school or on the job? What protection can be used in a laboratory environment?</li> <li>What should be part of an effective safety program?</li> <li>What characteristics are essential to a functional team?</li> </ul> |

|                                                |                                                                                                                                                                                                     |                                                                                                                                                                                                            |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                |                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>What are the benefits of working in a team environment as opposed to individually? (Q1)</li> </ul>                                                                  |
| <b>Acquisition of Knowledge &amp; Skill</b>    | Students will know... <ul style="list-style-type: none"> <li>Safe use of tools, equipment, and machinery. Model methods for maximizing personal productivity in a safe environment. (K1)</li> </ul> | Students will be skilled at... <ul style="list-style-type: none"> <li>Understanding the safe and proper use of power equipment and hand tools associated with constructing their projects. (S1)</li> </ul> |
| <b>Assessment Evidence Performance Task(s)</b> |                                                                                                                                                                                                     |                                                                                                                                                                                                            |
| <b>Learning Activities</b>                     |                                                                                                                                                                                                     |                                                                                                                                                                                                            |