



# Bridges Career Academy

## Woodworking

### Brainerd High School

Acquire basic woodworking and construction and gain the information needed to understand the construction industry. Learn to read blue prints, and develop skills in using the tools for working with a variety of woods while developing the understanding of safety required for construction projects. Tools used include a variety of power and hand tools, measuring tools and wood lathes. Students construct projects from designing to completion. Gain entry-level employment or continue education.

### Academic Courses

- Intro to CAD & Construction
- Woodworking 1
- Woodworking 2
- Advanced Woodworking

### Career Experiences

- Learn from industry speakers
- Attend the Bridges Career Exploration Day or other regional career fairs
- Work on personal projects

### Completion Standards

COMPLETE



**3 of 4 courses**

GRADES **B** ↑



Earn a **certificate** and **green cord** at graduation



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### Job Skills

In addition to having technical skills, employers expect workers in this industry to have these skills:

- Understanding planning and time management
- Teaming skills
- Use critical thinking and problem-solving skills
- Work precisely and manage tools and equipment
- Work safely



# Woodworking Academy

## Brainerd High School

The Woodworking Academy allows students to acquire not only basic woodworking and construction skills but also gain the information needed to understand the construction industries. In the Woodworking courses, students learn to read blue prints, and develop skills in using the tools for working with a variety of woods while developing the understanding of safety required for construction projects. Tools used in the courses will include a variety of power and hand tools, measuring tools and wood lathes. Students construct projects from designing to completion. Students will be prepared to go directly to employment or further their education.

### ACADEMY COURSES

#### **Introduction to CAD & Construction** — 1 High School Credit

This course is a “hands-on” introduction to many of the key systems of Applied Technology. Special emphasis is placed on Computer Aided Design and Woodworking. We focus on areas of product design, manufacturing, and construction. It is structured to introduce students to many important processes, materials, tools, and ideas used to produce the things we use every day. Students will work as individuals and in groups to create products using various equipment, tools and machines.

#### **Woodworking 1** — 1 High School Credit

Students will develop basic woodworking skills through practical application and practice. Topics of focus in this class include lab safety, project design, production planning, materials selection, machine tool and hand tool use, general maintenance, and finishing processes, etc. This is a project oriented, hands-on class.

#### **Woodworking 2** — 1 High School Credit

Students will continue development of woodworking skills through practical application and practice. Topics of focus in this class include lab safety, advanced project design and planning, materials selection, machine tool use and maintenance, and finishing processes, etc. This is a project oriented, hands-on class.

#### **Advanced Woodworking** — 1 High School Credit

This advanced level course is designed to offer students the opportunity to broaden their knowledge and elevate their skill level in the field of woodworking. Advanced techniques and concepts will be applied in the areas of design, furniture making, and basic cabinetry. Students will be responsible for designing projects and working their ideas through to completion. Quality, ingenuity, and focus on task will be stressed. Materials fees may be assessed according to the extent of the projects.

### COMPLETION STANDARD

Students wishing to receive a certification must complete three of the four courses; earn a minimum of a ‘80%’ or better average grade. In addition, students must have no more than five absences per semester and less than three tardiness incidents per semester. Students will also participate in the ACT National Career Readiness Certificate (NCRC) as part of this Academy Standard.

### CAREER EXPERIENCES

Students will explore and research careers with industry speakers, attend Bridges Career Exploration Day, and work on personal projects.

### JOB SKILLS

In addition to having technical skills, employers expect their workers to have other skills such as:

- Understanding planning and time management
- Teaming skills
- Use critical thinking and problem-solving skills
- Work safely
- Work precisely and manage tools and equipment

**CAREER OPTIONS:** [www.careerwise.minnstate.edu/careers](http://www.careerwise.minnstate.edu/careers)

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**POSTSECONDARY PROGRAMS:** [www.careerwise.minnstate.edu/education](http://www.careerwise.minnstate.edu/education)



*Supported in part by Sourcewell (formerly NJPA)*

6/2018

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