

Explore finish carpentry and manufacturing. Curriculum is based on current industry standards. Participate in business tours and learn from guest speakers and instructional videos. Operate Computer Aided Design and Drafting (CADD) to design projects. Build projects using a CNC mill, plasma cutting table, 3D printer, and various woodworking tools.

Academic Courses

Career Experiences

- Learn from industry speakers
 - Tour local businesses
 - Attend the Bridges Career Exploration Day or other regional career fairs

Completion Standards

COMPLETE

All courses

Woods I

Woods II CADD



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





Explore types of careers www.careerwise.minnstate.edu/careers

Review the local job outlook

www.careerwise.minnstate.edu/jobs

Find postsecondary programs

www.careerwise.minnstate.edu/education

Job Skills

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

- Understanding planning and time management
- Be an active member of a team
- Use critical thinking and problemsolving skills
- Work safely
- Work precisely and manage tools and equipment



Supported in part by Sourcewell (formerly NJPA) 6/2018

www.BridgesConnection.org/Browerville

Wood Finishing Career Academy

Browerville High School

The Wood Finishing Academy is designed for students with an interest in finish carpentry and manufacturing. The Academy's curriculum is based on current industry standards. The Academy emphasizes the opportunities in the career field of manufacturing and cabinetry by utilizing business tours, guest speakers, and instructional videos. Students will operate Computer Aided Design and Drafting (CADD) to design projects. Students will build their projects using a CNC mill, plasma cutting table, 3D printer, and various woodworking tools.

ACADEMY COURSES

Woods I — 1 High School Credit

Students will be able to demonstrate their skills in drafting. Students will use all equipment safely by passing all safety tests. Students will plan, design, select materials, use power equipment, utilize different joining methods, and implement different finishing methods (staining and spraying) on selected project. Student will complete a selected class project by either working in pairs or on their own.

Woods II — 1 High School Credit

Students will revisit all tools and procedures from Woods I. Students will use all equipment safely by passing all safety tests. Students will continue to develop their skills by completing an independent class project which includes work skills such as: drafting, designing, selecting materials, creating a sales receipt, building and finishing. Students will have the opportunity to do field measurement and possibly install furniture and/or cabinets. Students demonstrating success will have an opportunity for employment with several cabinet manufacturing companies in the area.

CADD — 1 High School Credit

Students will be able to manufacture objects and parts that were designed and drafted using Computer Aided Design and Drafting (CADD). Students will understand the CADD language and vocabulary that is used in the industry. Students will manufacture a part using a CNC mill, plasma cutting table, and a 3D printer.

COMPLETION STANDARD

Students must complete Woods I with a grade of 80% (B- average) or higher to continue to more Academy advanced courses. Students must achieve a grade of 85% (B average) or higher for Woods II and CADD to receive a certificate of completion for this Academy.

CAREER EXPERIENCES

Students will tour local cabinetry and CADD businesses, visit post-secondary institutions with Academy related programs, engage with industry guest speakers in the classroom, utilize team projects that include a mock bidding process, and be exposed to videos that highlight the different careers opportunities in the fields of CADD and woodworking. Also, attend Bridges Career Exploration Day.

JOB SKILLS

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

- Understanding planning and time management
- Be an active member of a team
- Use critical thinking and problem-solving skills
- Work safely
- · Work precisely and manage tools and equipment

CAREER OPTIONS: www.careerwise.minnstate.edu/careers JOB OUTLOOK: www.careerwise.minnstate.edu/jobs POSTSECONDARY PROGRAMS: www.careerwise.minnstate.edu/education



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