



Bridges Career Academy

Carpentry

Upsala High School

Understand careers in manufacturing. Experience working with a variety of metals, while designing, welding, machining and building machines. Learn skills in mechanical designing using blueprint reading, engine operations, measuring, and shop safety. Project-based, using real life activities. Design and build a high mileage car for competition. Gain entry-level employment or continue education.

Academic Courses

- Agriculture Carpentry & Woodworking I
- Agriculture Carpentry & Woodworking II
- Agriculture Carpentry & Woodworking III

Career Experiences

- Tour local businesses
- Attend the Bridges Career Exploration Day or other regional career fairs
- Participate with professionals

Completion Standards

COMPLETE

ALL courses

GRADES **B** ↑

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 problem-solving skills
- Work safely
- Work precisely and manage tools and equipment



Carpentry Career Academy

Upsala High School

The Carpentry Academy allows students to acquire not only basic construction skills but also the information needed to understand the woodworking and construction industries. In the carpentry and woodworking courses, students will be involved with the construction. While learning blue print reading, develop wood working skills and learn how to use the tools that are required for their projects. With the variety of career opportunities in the carpentry industry, students will be prepared to go directly to employment or further their education when completing this Academy.

ACADEMY COURSES

Agriculture Carpentry and Woodworking I —.5 High School Credits

This course teaches the use of tools related to weed construction. Students will build projects they own design. Students selecting a project will learn to estimate the cost, materials and supplies needed to complete the project while using problem solving and mathematical calculations.

Agriculture Carpentry and Woodworking II —.5 High School Credits

Students in this course will use advanced techniques in design and construction while constructing their projects. The ability to investigate and utilize a wide range of machinery as well as the safe use of a variety of tools is emphasized.

Agriculture Carpentry and Woodworking III — .5 High School Credits

Students in this course will use advanced techniques in design and construction while constructing their projects. The ability to investigate and utilize a wide range of machinery as well as the safe use of a variety of tools is emphasized. Student will serve as mentors to other students and assist them in learning woodworking techniques.

COMPLETION STANDARD

Students wishing to receive a certification must complete all courses and earn a minimum of a 'B' grade average.

CAREER EXPERIENCES

Students will explore and research careers with industry speakers, and participate in Bridges Career Exploration and other career fairs. In addition, students will work with professionals while they explore and develop their projects.

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

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