



Bridges Career Academy

Agricultural

Browerville High School

Introduction to the agricultural and agri-business careers in the natural sciences. Explore the production of food and learn about soils and fertilization while preserving the natural environment and animals. Repair and weld farm equipment. Work with small animals. Hands-on projects and real-world experiences.

Academic Courses

- Exploring Agriculture
- Environmental Biology/
Hunter's Biology
- Small Engines
- Farm Mechanics/Welding
- Greenhouse/Botany I & II


Career Experiences

- Learn from industry speakers
- Tour R-Way Metal, Great Bear Taxidermy and local farms
- Attend the Bridges Career Exploration Day or other regional career fairs

Completion Standards

COMPLETE

3 of 5 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:

- Safety skills
- Problem solving and critical thinking
- Ability to work in teams
- Understand and manage tools and equipment



Agricultural Career Academy

Browerville High School

The Agriculture Academy provides students an introduction to the agricultural and agri-business careers in the diverse natural sciences of today. Students will have the opportunity to explore the production of food, learn about soils and fertilization, while preserving the natural environment and the animals that live there. The opportunity to repair and weld farm equipment, and work with small animals are essential elements of this academy. Hands-on projects and real-world experiences part of this Academy. For those interested in working in the natural world, this Academy is for them.

ACADEMY COURSES

Exploring Agriculture —1 High School Credit

This course introduces agriculture and agri-business in the production of food and fiber. Agri-business occupations, small engines, welding, natural resources and leadership training are covered in the course. Students will learn the basic parts of soils, small animal care and work on the small engines used in farm equipment.

Environmental Biology/Hunter's Biology — 1 High School Credit

If you like to learn about wild game, both large and small, found on agricultural land, this class will interest you. You will go through identification and reproduction of wildlife in Minnesota while looking at the biological, ecological, and economic impact of wildlife in Minnesota. You will gain knowledge in hunting, Minnesota game laws, and how to manage resources.

Small Engines — 1 High School Credit

This course includes the use of tools and shop safety. Students will learn how to service, and repair small engines by using the specifications found in the specific equipment manuals. Students will experience hands-on projects and be allowed to work on their own small engines and equipment.

Farm Mechanics/Welding — 1 High School Credit

The course investigates the variety of equipment used in agri-businesses. Students will learn about tractor and automobile engines, batteries, tires, cooling systems and electrical systems. Comparing gas against diesel engines and fuel systems will allow students to understand the benefits of various fuels. Safety around all types of equipment is essential to the course.

Greenhouse/Botany I & II — 1 High School Credit

This course is designed to give the students a hands-on approach to Botany. It consists of setting up hydroponics systems, raising plants, and group projects. Included will be the structure of plants. Students will have the opportunity to design their own garden, hydroponics system or greenhouse.

COMPLETION STANDARD

Students wishing to receive a certification for this academy must complete three of the five courses and maintain at a minimum of "B" grade.

CAREER EXPERIENCES

Students will listen to guest speakers, tour the R-Way Metal and the Great Bear Taxidermy businesses, as well as local farms. Students will also attend Bridges Career Exploration Day to learn about other agri-businesses.

JOB SKILLS

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

- Safety skills
- Problem solving and critical thinking
- Ability to work in teams
- Understand 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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www.BridgesConnection.org/Browerville