



# Bridges Career Academy

## Transportation

*Crosby-Ironton High School*

Acquire the skills necessary to service and maintain small engines. Build and repair small engines using methods, tools and equipment used by technicians in small engine/outdoor power businesses. Learn about the variety of outdoor power vehicle careers, with employment options from repair to sales. Gain entry-level employment or continue education.

### Academic Courses

- Basic Auto
- Small Engines I
- Small Engines II

### Career Experiences

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

### Completion Standards

COMPLETE

**All courses**

GRADES **B** ↑

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



**Explore types of careers**  
[www.careerwise.minnstate.edu/careers](http://www.careerwise.minnstate.edu/careers)

**Review the local job outlook**  
[www.careerwise.minnstate.edu/jobs](http://www.careerwise.minnstate.edu/jobs)

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### Job Skills

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

- Ability to work with customers and coordinating with other employees
- Critical thinking, problem solving and decision-making skills
- Managing tools and equipment
- Listening skills



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[www.BridgesConnection.org/CrosbyIronton](http://www.BridgesConnection.org/CrosbyIronton)

# Transportation Career Academy

## Crosby-Ironton High School

The Transportation Academy allows students to acquire the basic skills necessary to service and maintain today's small engines. In addition, students apply their knowledge and skills to real-world practices as they build and repair small engines. The Academy offers curriculum that aligns with the methods, tools and equipment used by technicians in small engine/outdoor power businesses. The Academy introduces students to the variety of outdoor power vehicle career fields and with employment options from repair to sales. Students wishing to continue their education can transfer their skills to high education would be interested in this Academy.

### ACADEMY COURSES

#### **Basic Auto** — .5 High School Credit

This course covers various areas in the field of mechanics. First semester areas of concentration include buying a car, basic car care, tune-up, carburation, and emissions control work. Included are basic electricity and electrical systems, valve work and some major engine work,

#### **Small Engines I** — .5 High School Credit

This course details the principles of power mechanics with special emphasis given to the two and four stroke cycle in small gas engines. Students will experience using a variety of tools and testing equipment while following service manual specifications.

#### **Small Engines II** — .5 High School Credit

Students will learn the theory of two-stroke, four-stroke, rotary, hot air and steam engines. They will also disassemble and reassemble a four-stroke engine. Students will engage in the repair of four stroke engines and other power equipment.

### COMPLETION STANDARD

Students wishing to receive a certification for this academy must complete all courses while earning a grade of "B" or better in each course.

### CAREER EXPERIENCES

Students will explore and research careers, practice car maintenance and repair, tour local automotive dealerships, and attend the Bridges' Career Exploration Day event and other regional career fairs. Highlighting the business experience will be tours and speakers from local industries such as Graphic Packaging.

### JOB SKILLS

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

- Listening skills
- Ability to work with customers and coordinating with other employees
- Critical thinking, problem solving and decision-making skills
- Managing tools and equipment

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

**JOB OUTLOOK:** [www.careerwise.minnstate.edu/jobs](http://www.careerwise.minnstate.edu/jobs)

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

