



Bridges Career Academy

Building Trades

Pillager High School

Acquire basic construction skills and information needed to understand building processes used in residential and commercial construction. Be involved with the construction of a building while learning blue print reading, developing wood working skills and learning the documentation processes required for building a structure. Understand the basics of electricity. Gain entry-level employment or continue education.

Academic Courses

- Construction Trades
- Welding
- Basic Electricity
- Cabinet Making


Career Experiences

- Tour local businesses
- Listen to industry speakers
- Work with professionals in plumbing, wiring, HVAC and cabinetry
- Attend the Bridges Career Exploration Day or other regional career fairs

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



www.BridgesConnection.org/Pillager

Building Trades Career Academy

Pillager High School

The Building Trades Academy allows students to acquire not only basic construction skills but also information needed to understand building processes used in residential and commercial construction. In the building trade's courses, students will be involved with the construction of a building while they learn blue print reading, develop wood working skills and learn the documentation processes required for building a structure. Understanding the basics of electricity will provide students with skills usable throughout their lives. With the variety of career opportunities in the construction industry, students will be prepared to go directly to employment or further their education when completing this Academy.

ACADEMY COURSES

Construction Trades — 1 High School Credit

Students will learn how to build a building from the ground up. The class will be broken into the following units: blueprint reading, framing, insulation, sheet rocking, and painting, trimming and siding, as identified by the structure. Students will be outside on a building project much of the class time.

Welding — 1 High School Credit

This course in general welding will introduce the student to soldering, brazing, oxyacetylene welding and cutting, plasma cuts, arc welding, GMAW (Mig) welding, and TIG aluminum and steel welding. The student will also develop an understanding and appreciation of welding safety and good shop skills.

Basic Electricity — 1 High School Credit

Basic electricity is the study of magnetism, electromagnetism, static electricity, current electricity, series circuits, parallel circuits, Ohm's law, power, and energy. Other topics of study may include house wiring, designing and building a circuit project, light sound and nuclear energy.

Cabinet Making — 1 High School Credit

Students will learn how to design and build a cabinet. Students will be exposed to a variety of power tools. Ideas of acceptable projects are as follows: nightstand, end table, dresser, entertainment center or gun cabinet. This class will cost the student \$40.00 to cover the basic costs of materials for a night stand; however other projects may have an additional cost.

COMPLETION STANDARD

Students wishing to receive a certification for this academy must complete 3 of the 4 courses while earning a "B" or better average in each course.

CAREER EXPERIENCES

Students will explore and research careers with industry speakers, work with professionals in the industry in areas of plumbing, wiring, HVAC and cabinetry, and attend the Bridges Career Exploration Day event and other regional career fairs. In addition, students will construct a building structure.

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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