



# Bridges Career Academy

# Construction Technology

*Little Falls High School*

Acquire basic construction skills and information needed to understand the use of woodworking tools, creating furniture and the introduction of the building construction industry. Emphasis on blue print reading, developing wood working skills and teaching the processes required for building a personal project. Gain entry-level employment or continue education.

## Academic Courses

- Wood Machine Operation
- Woods I
- Woods II
- Vocational Furniture Case I
- Vocational Furniture Case II
- Introduction to Building Construction

## Career Experiences

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

## Completion Standards

**COMPLETE**

**3 of 6 courses**

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:

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



# Construction Technology Career Academy

## Little Falls High School

The Construction Technology Academy allows students to acquire not only basic construction skills but also gain information needed to understand the use of wood working tools, creating furniture and will be introduced to the building construction industry. The wood's courses will emphasis blue print reading, develop wood working skills and teach the processes required for building a personal project. Students will be prepared to go directly to employment or further their education when completing this Academy.

### ACADEMY COURSES

#### **Wood Machine Operation — .5 High School Credits**

Beginning woodworking course with emphasis on the safe and proper operation of woodworking machines. Demonstrations on each individual machining and use of the machine will be shown. Students will be required to understand the safe use of the machine while creating personal projects.

#### **Woods I — .5 High School Credits**

This course allows students to gain more knowledge of the woods area while making an intermediate wood project. Along with safety and machine knowledge, students will draw and read plans.

#### **Woods II — .5 High School Credits**

The class teaches woodworking skills by requiring students to create a unique and large project. Students will design, plan and complete their project while demonstrating high level woodworking skills and safety.

#### **Vocational Furniture Case I — 1 High School Credit**

This course refines woodworking skills while making an advanced project. Along with safety and machine knowledge, the students will draw and read plan procedures and learn techniques to properly finish wood projects. Projects include dressers, gun cabinets, coffee tables, and benches.

#### **Vocational Furniture Case II — 1 High School Credit**

As students continue to hone their woodworking skills, they are expected to build a complete project and record their progress in a weekly portfolio.

#### **Introduction to Building Construction — .5 High School Credits**

In this course students will identify, properly use and maintain carpenter hand tools, portable tools, machines and equipment. Skill development, safety, OSHA requirements and work practices are stressed. Construction equipment is studied.

### COMPLETION STANDARD

Students wishing to receive a certification must complete three of the six courses listed successfully.

### CAREER EXPERIENCES

Students will explore and research careers with industry speakers, tour local businesses, and participate in the Bridges Career Exploration Day and other career fairs.

### 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](http://www.careerwise.minnstate.edu/careers)

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