



# Bridges Career Academy

## Carpentry

### Swanville High School

Acquire basic construction knowledge and gain design and construction skills critical in the construction industry. Use mechanical drafting to design a personal project. Experience hands-on activities that include machine operation, material fabrication and wood finishing. Learn blueprint reading, woodworking skills and mathematical skills. Gain entry-level employment or continue education.

## Academic Courses

- Basic Woods
- Advanced Woods Carpentry

## Career Experiences

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

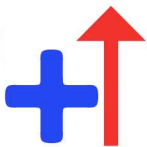
## Completion Standards

COMPLETE



**All  
courses**

GRADES

**C+** 

ATTENDANCE

**90%**

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



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### 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)

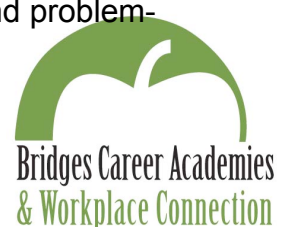
### Find postsecondary programs

[www.careerwise.minnstate.edu/education](http://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
- Understand blueprints



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

# Carpentry Career Academy

## Swanville High School

The Carpentry Academy allows students to acquire not only basic construction knowledge but students will also gain design and construction skills critical in the construction industry. In the carpentry courses, students will use mechanical drafting to design a personal project; will experience hands-on activities that include machine operation, material fabrication and wood finishing. Students put blueprint reading, woodworking skills and mathematical skills to work in a practical way. 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

#### **Basic Woods — 2 High School Credits**

This course will introduce the students to career related occupations and power & hand tools operations used in the woodworking trades. Some math will be involved in writing up their material list and figuring the final cost, as well as, drafting their project orthographically before they are allowed to start their project. Machine operation and safety will be emphasized and basic projects can be constructed.

#### **Advanced Woods — 2 High School Credits**

Skills learned will give students advanced skills in the construction of both large and small projects. Students will be responsible for not only the project's design but also selecting the materials, estimating the project costs resulting in a completed project.

#### **Carpentry — 2 High School Credits**

Students in Cabinet Making will apply design and construct a wood project of their choice. Students will be instructed on machine safety, machine operation, material fabrication, and wood finishing. Before their project is started they will need a detailed materials list turned in with total costs. Throughout the course students will be evaluated on classroom participation, work habits and the ability to complete a complex project that is constructed out of veneers and solid wood.

### COMPLETION STANDARD

Students must earn a C+ or higher, grades lower than that will be cause for dropping from academy. Students may appeal before a board of administrators and teacher. In addition, students in one semester must have 90% attendance (which equates to two days of unexcused absences). If students turn in late work but for each day that it is late, 10% will be dropped from the score. Students that have excused absences will have one day for each absence. Unexcused absences will have one-day total to turn in assignments.

### CAREER EXPERIENCES

Students will explore and research careers with industry speakers, work with professionals in the industry, tour a local cabinet shop, tour a locally-owned granite countertop shop, visit a new home construction, and participate in Bridges Career Exploration Day.

### 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
- Understand blueprints

**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)

