# Bridges Career Academy

# Pre-Health

*Pillager High School*

Introduction to careers in health. Explore long and short career options, develop an understanding of the terminology used by medical professionals, develop and understanding of medical environments and learn the biological functions of organ systems and reproductive systems. Experience hands-on labs and study the major systems of the human body. Gain entry-level employment or continue education.

## Academic Courses

- Human Biology
- Biotechnology
- Chemistry
- Vertebrate Zoology
- Veterinarian Technology

## Career Experiences

- Listen to industry speakers
- Tour local businesses
- Attend the Bridges Career Exploration Day or other regional career fairs
- Participate in a possible internship

## 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:

- Active listening and speaking skill
- Problem solving
- Oral and written communications skills
- Team work in lab settings

Bridges Career Academies & Workplace Connection

*Supported in part by Sourcewell (formerly NJPA)*
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**www.BridgesConnection.org/Pillager**

# Pre-Health Career Academy

Pillager High School

The Pre-Health Career Academy offers an introduction to the many varied careers in the health field today. Students explore long and short career options, develop an understanding of the terminology used by medical professionals, develop and understanding of medical environments and learn the biological functions of organ systems and reproductive systems. Students experience hands-on labs as they study the major systems of the human body. When completing the Academy, students will have basic skills to determine what aspect of the health industry they are interested in and become employed or continue their education.

## ACADEMY COURSES

**Human Biology —** 1 High School Credit
This course focuses on the structure and function of the major systems found in the human body. Students will be able to identify major organs, organ systems and understand the function of each. Lab observation and dissecting skills will be developed.

**Biotechnology —** 1 High School Credit
Emphasis is placed on the fundamental cell biology, microbiology and genetic principles. Students will have extensive lab work that utilizes the science and application behind the biotechnology revolution such as protein isolation, DNA fingerprinting, genetic engineering and gene transfer. Topics such as stem cell research, animal cloning, cancer and aging will also be included.

**Chemistry —** 1 High School and/or 3 College Credits
This course is the study of general laws of chemistry periodicity, atomic and molecular structures, physical and chemical changes. Students will develop an understanding of correlating chemical principles with practical applications using lab techniques.

**Vertebrate Zoology —** 1 High School Credit
Explore fundamental vertebrate body systems through the comparative study of their anatomy and physiology. Dissections of the major system organs and chordate representatives will be a major lab component.

**Veterinarian Technology —** 1 High School Credit
Students will explore the fundamentals of animal science, medical terminology and the biology of body systems. Laboratory experiences related to medical knowledge will be explored. The anatomy and physiology of the skeletal, muscular, circulatory, respiratory, and urinary and nervous systems will be explored.

## COMPLETION STANDARD

Students wishing to receive a certification for this academy must complete 3 of 5 courses while earning a “B” or better average in each course.

## CAREER EXPERIENCES

Students will listen to guest speakers, tour local businesses, explore a variety of news related articles and attend the Bridges Career Exploration Day event and other regional career fairs. The academy is tied to a possible Lakewood Health Systems internship experience.

## JOB SKILLS

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

- Active listening and speaking skills
- Problem solving
- Oral and written communications skills
- Team work in lab settings

**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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