



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 an 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

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 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:

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



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 an 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.

COMPLETION STANDARD

Students wishing to receive a certification for this academy must complete 3 of 4 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

