



# Bridges Career Academy

## Health Science

*Pequot Lakes High School*

Learn about a variety of careers in health. Explore long and short career options, develop an understanding of the terminology used by medical professionals in medical environments and learn the functions of organ systems and reproductive systems. Medical terms and chemistry skills are essential parts of this Academy.

### Academic Courses

- Biology or Human Anatomy
- Medical Terminology
- General Chemistry
- Health 10
- Sports Science


### Career Experiences

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

### Completion Standards

COMPLETE

**ALL 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 skills
- Problem solving
- Oral and written communications skills
- Team work in lab settings



# Health Science Career Academy

## Pequot Lakes High School

The Health Science Academy offers an introduction to the many varied careers in the health field. Students explore long and short career options, develop an understanding of the terminology used by medical professionals in medical environments and learn the functions of organ systems and reproductive systems. Medical terms and chemistry skills are essential parts of this Academy.

### ACADEMY COURSES

#### **Biology or Human Anatomy** — .5 High School Credit

This course focus will be biochemistry, energy relationships, ecology, cells and their functions. Students will also learn about DNA structure and function, heredity, genetics, evolution concepts and how the immune systems functions.

#### **Medical Terminology** — .5 High School Credit

This course teaches students to recognize and build medical terms after learning the meaning of word parts. The course is based on a systems approach.

#### **General Chemistry** — .5 High School and/or 4 College Credits

This course is designed to cover major aspects of chemistry. Students will learn the base knowledge including matter, elements, and the periodic table as well as ionic and covalent compounds. Concepts covered include: chemical equations, solutions, acids and bases, nuclear reactivity and gases. Includes large group projects that integrate the chemistry concepts into a practical real world application, as well as labs and discussions using problem solving method techniques.

#### **Health 10** — .5 High School Credit

Individualized cardiovascular and strength programs will be emphasized in PE through work in the weight room to improve strength, endurance, flexibility and ‘Target Heart Rate.’ Health will cover the standards recommended by the MN Dept. of Ed: health promotion and disease prevention; accessibility of valid health info including health-promoting products and services; health enhancing behaviors; influence of culture, media, communication and decision-making skills to enhance health; advocating for personal, family and community health.

#### **Sport Science** — .5 High School Credit

This course involves the study of different science aspects of sports and how they impact sports performance. Topics include; biological body systems, bio-chemistry, physics and meteorology. The course emphasizes conceptual understanding and problem solving. The lab component reinforces conceptual understanding with hands-on experiences and physical measurements. The course used data acquisition and simulations to help students visualize and understand abstract concepts.

### COMPLETION STANDARD

Students wishing to receive a certification for this academy must complete all courses while maintaining a grade of “B” in each of the courses.

### CAREER EXPERIENCES

In addition to the hands-on experiences, students will listen to professionals in the field, tour local businesses, job shadow professionals and attend the Bridges Career Exploration Day event and other regional career fairs.

### 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](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)



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