

Wallenpaupack Area School District

Wallenpaupack Area High School

Course Title: Introduction to Medical Sciences

Length of Course: 1 Semester – 0.5 Credits

District Policies:

Academic Integrity:

Academic integrity is essential to the success of an educational community. Students are responsible for learning and upholding professional standards of research, writing, assessment, and ethics in their areas of study. Written or other work which students submit must be the product of their own efforts and must be consistent with appropriate standards of professional ethics. Academic dishonesty, which includes cheating, plagiarism, multiple submissions and other forms of dishonest or unethical behavior, is prohibited.

Assessment:

The goal of grading is to report student progress and achievement to the parents to strengthen the home-school connection. The grade should accurately reflect the student's performance in mastering the PA Standards and the WASD curriculum.

Attendance:

Regular school attendance is vitally important to academic success. Not only does attendance reinforce and enrich the learning process; it also establishes patterns and attitudes that will carry forward into adult work habits. Regular, consistent attendance is a prerequisite to successful school life. Children should be absent only in cases of illness or emergency.

Special Education:

Our commitment to each student is to ensure a free appropriate public education which begins with the general education setting, with the use of Supplementary Aids and Services. Inclusive education describes the successful education of all students with the appropriate supports and services to participate in and benefit from the general classroom settings and other educational environments.

Course Description: A student must take this course in order to enroll in the CTE Allied Health Program. Any student who thinks he/she might be interested in pursuing a career in healthcare is encouraged to take this course. This course includes the study of legal responsibilities and personal qualities of a healthcare professional, infection control, body systems and medical terminology. "Hands-on" work will be included in the clinical laboratory such as first aid, vital signs, patient interaction and communication role-play. Healthcare career exploration is a major component in this course.

Course Objectives: At the completion of this course the student will have had the opportunity to develop an understanding of major body systems including structure, function and related first aid. Students will also explore a variety of health care careers. In addition, students will practice basic health assistant skills, and explore the opportunities available to students in the Allied Health Careers Program.

Ethical/Legal Responsibilities

Pennsylvania State Standards:

13.1 A.E.

13.2 B.D.G.

Students will demonstrate the ability to:

- Explain and give example of each: malpractice, negligence, assault, battery, invasion of privacy, false imprisonment, abuse and defamation
- Define privileged communications
- Identify the legal regulations that apply to health care records
- Explain basic rules of ethics for health care personnel
- Identify six patient rights
- Explain how professional standards help meet ethical/legal requirements

Infection Control/Universal Precautions

Pennsylvania State Standards:

13.1 A.E.

13.2 B.D.G.

Students will demonstrate the ability to:

- Define Key Terms
- Explain the difference between pathogens and nonpathogens
- Identify six factors necessary for microorganisms to live and grow
- Explain the differences between medical asepsis, disinfection and sterilization
- Explain six links in the chain of infection
- Demonstrate proper hand washing technique
- Demonstrate proper application and removal of clean gloves
- Explain universal precautions and related techniques (disposal of sharps, use of personal protective equipment)

Body Planes, Directions, and Cavities

Pennsylvania State Standards:

13.1 A.E,

13.2 B.D.G.

Students will demonstrate the ability to:

- Define key terms
- Identify the names of the planes and the directional terms associated with these body planes
- Identify the main body cavities
- Identify the major organs located in each body cavity
- Locate the nine abdominal regions

Skeletal System

Pennsylvania State Standards:

13.1 A.E.

13.2 B.D.G.

Students will demonstrate the ability to:

- Define Key Terms
- List five functions of bones
- Identify all of the major bones in the skeletal system
- Compare the three classifications of joints by describing the type of motion allowed by each
- Give one example of each joint classification
- Describe at least four diseases of the skeletal system

Circulatory System

Pennsylvania State Standards:

13.1 A.E.

13.2 B.D.G.

Students will demonstrate the ability to:

- Define Key Terms
- Label the layers, chambers, and major blood vessels on a diagram of the heart
- Differentiate between systole and diastole by explaining what happens in the heart during each phase
- List the three major types of blood vessels and the function of each
- Compare the three types of blood cells by describing the function of each
- Describe at least five diseases of the circulatory system

Respiratory System

Pennsylvania State Standards:

13.1 A.E.

13.2 B.D.G.

Students will demonstrate the ability to:

- Define Key Terms
- Label a diagram of the respiratory system
- List five functions of the nasal cavity
- Identify the three sections of the pharynx
- Explain how the larynx helps create sound and speech
- Describe the function of the epiglottis
- Compare the processes of inspiration and expiration
- Describe at least five diseases of the respiratory system

Major Activities to Support Course Objectives:

Student Responsibilities:

Attendance expectations: The majority of course work is completed in the classroom and in the classroom- laboratory therefore regular attendance is vital to successful completion of this course.

Homework expectations: Students with good attendance, who are actively engaged in classroom activities on a daily basis, can expect minimal homework assignments.

Make-Up Work: Students will be given one day for each excused day of absence to make-up work. See the instructor if you have concerns regarding make-up work.

Late Work: For any work that is turned in late, five points will be deducted per day late . Any work more than five days late will receive a grade of zero.

Assessment:

Grading Components:

Quiz average 33%

Project average 33%

Classroom participation 34%

Content Pacing Guide:

Topic	Major Assignments	Estimated Time/Blocks
Ethical/Legal Responsibilities Legal Responsibilities Ethics Patients' Rights Legal Directives for Health Care Professional Standards	Study guide Cooperative learning Oral Presentations Skits Case Studies Projects Unit Quiz	9

<p>Infection Control/Universal Precautions Understanding the Principles of Infection Control Microorganisms Medical Asepsis Clean vs Sterile Conditions Chain of infection Handwashing Gloving Isolation Observing Universal Precautions</p>	<p>Study guide Cooperative learning Oral Presentations Case Studies Projects Demonstration and practice of related skills Unit Quiz</p>	<p>9</p>
<p>Body Planes, Directions, and Cavities Body Planes Body Cavities Abdominal Regions</p>	<p>Study guide Cooperative learning Oral Presentations Case Studies Projects Demonstration and practice of related skills Unit Quiz</p>	<p>5</p>
<p>Skeletal System Anatomy Physiology Functions Diseases of the skeletal system First Aid- strain, sprain, fracture dislocation</p>	<p>View Body Atlas video Study guide Cooperative learning Create and present flash cards Oral Presentations Projects Demonstration and practice of related skills Unit Quiz</p>	<p>6</p>
<p>Circulatory System Anatomy of the circulatory system Heartbeat Cycle Cardio-pulmonary Circulation Conductive Pathway Blood Vessels Blood Composition Blood Cells Diseases and Conditions First Aid- CPR, AED</p>	<p>View Body Atlas video Study guide Cooperative learning Oral Presentations Projects Demonstration and practice of related skills Unit Quiz</p>	<p>10</p>
<p>Respiratory System Anatomy of Respiratory System Physiology of Respiratory System Diseases and conditions First Aid- Foreign Body Airway Obstruction</p>	<p>View Body Atlas video Study guide Cooperative learning Oral Presentations Projects Demonstration and practice of related skills Unit Quiz</p>	<p>6</p>
	<p>Total Blocks</p>	<p>45</p>