

Anderson 1 & 2 Career and Technology Center Health Science

Course Title Introduction to Health Science

Instructors

Shannon Everhart
Heather Minton
Carolyn Olver

Course Credit/Sequence

1-9 week course
1-elective credit

Health Science Introduction—10th grade
Health Science 1/2 Foundations of Healthcare Professions—11th grade
Health Science 3 Essential Healthcare Practices—12th grade
Health Science Clinical Study CNA (Certified Nursing Assistant)—12th grade
Health Science PCT (Patient Care Technician)—12th grade

Prerequisite

None

Course Description

This is a sophomore level course designed to introduce students to the various aspects of the healthcare field. With population growth, increase in longevity, and changes in health care systems there is an increased need for educated and trained health care workers. Employment opportunities in health care are varied and numerous.

Instructional Philosophy

Healthcare delivery in the United States is in a period of transition or change with technological advances. This trend has increased the need for consumer awareness and individual responsibility for health care. As students are being prepared to assume roles in health care, it is important that they understand that the careers are varied and different with common knowledge and procedure. This being true, basic preparation starts in high school and includes Sciences, English, Math and Computer Skills before the student can move forward successfully.

Student assessment will be based on group work, individual completion of assignments, written reports, tests and selected skill performances. Students will be expected to meet the standards of the classroom and course with the teacher's assistance. Ample opportunities will be given to students to evaluate their own progress.

Instructional Delivery Plan

PowerPoint's and handouts will be used for the visual learner, lecture and class discussions will be utilized for the auditory learner, and hands on activities will be done for the tactile/kinesthetic learners. In this manner the needs of all three types of learners will be met. The teacher will outline classroom and school policies and procedures the first week of class. A handbook test will be given. Evaluation and grading systems will be introduced at the beginning of the course to advise students of the standards they are expected to meet and pass the course and achieve better grades. Rubric use will also be explained to students.

Class Operation: The teacher provides direction and manages the class, but gives students as much responsibility as possible for planning, designing and completing projects.

Course Goals

Upon Completion of this course students will be able to:

- Describe and implement safety measures and infection control measures
- Describe principles of infection control
- Identify and describe the history, evolution and future of healthcare
- Demonstrate CPR skills
- Select and design a career path/search
- Identify and describe at least 20 health careers
- Demonstrate ethical behavior including confidentiality
- Identify and demonstrate communication skills
- Describe the impact of cultural diversity on health care practices
- Demonstrate basic medical math skills

Course Outline

Safety

1. Define the term body mechanics as it is used
2. Demonstrate correct body mechanics
3. Explain what the Occupational Safety and Health Administration is responsible for
4. List four main classes of fire extinguishers
5. Locate fire extinguishers and pull alarms in the health and medical building
6. Relate each class of fire extinguisher to the specific type of fire for which it is used
7. Describe the evacuation plan for health and medical
8. Define, pronounce, and spell key terms

Infection Control

1. Identify five classes of microorganisms by describing the characteristics of each class
2. List the six components of the chain of infection
3. List six ways to break the chain of infection
4. Wash hands according to recommended aseptic technique
5. Define bioterrorism and identify four ways to prepare for a bioterrorism attack
6. Define, pronounce and spell key terms

Careers in Health Care

1. Compare educational requirements for associate's, bachelor's, and master's degrees
2. Define certification, registration, and licensure
3. Complete a career portfolio by investigating one health career utilizing the internet, magazines, books etc.
4. Define, pronounce and spell key terms

Personal Qualities of a Health Care Worker

1. Explain how diet, rest, exercise, good posture and avoiding tobacco, alcohol, and drugs contribute to good health
2. Describe a health care worker who has at least eight personal/professional traits or attitudes
3. Identify four factors that interfere with good communication
4. Explain the importance of listening, nonverbal behavior, reporting and recording in the communication process
5. Explain why teamwork is beneficial – define teamwork
6. List six characteristics of a leader
7. List the differences between democratic, laissez-faire, and autocratic leaders
8. List major positive and negative stressors
9. List six ways to decrease or eliminate stress
10. Define, pronounce and spell key terms

History and Trends of Healthcare

1. Describe the difference between early beliefs about what causes disease and treatment and current beliefs about disease and treatment
2. List ten major events in the history of healthcare
3. Name 10 historical individuals and explain their contribution to healthcare and its importance.
4. Identify five current trends or changes in healthcare
5. Define, pronounce and spell key terms

Cardiopulmonary Resuscitation (CPR)

1. Identify the major causes of cardiac arrest in adults, children and infants
2. Explain the chain of survival and its components
3. Name three prevention steps to avoid pediatric injury/arrest
4. Name three signs/symptoms of heart attack and stroke
5. Properly demonstrate the use of CPR personal protective equipment
6. Properly demonstrate one rescuer adult, infant and child CPR
7. Properly demonstrate obstructed airway maneuvers for adult, children and infants

Major/Anchor Projects

Career portfolio, CPR certification

Makeup Policy

If absent (excused) students will be given one class for every class missed to make up work. If work is not turned in after the allotted time a zero will be assigned for missing work.

Materials

3 ring binder with notebook paper

Chromebook, charged and ready to work

Grading Scale

A	90-100
B	89-80
C	79-70
D	69-60
F	59 or below

Grading Percentages

Major Grades: Tests /Major Projects	60%
Minor Grades: Classwork/Homework/Quizzes	40%