

Introduction to Health Careers

GRADE: 11 & 12

LEVEL: 2

CREDITS: 5

RECOMMENDED PREREQUISITE: Wellness Grade 9 & Grade 10

BASIC TEXT: *Health Science Career Exploration*, Cengage Learning, 2004

SUPPLEMENTAL READINGS: As assigned

REQUIRED MATERIALS: 3 ring binder, writing utensil

COURSE DESCRIPTION:

This course is designed for students who may be interested in a career in the health care industry. Students will explore the many career paths available in health care. Topics included are cultural diversity, medical terminology, and medical math, computer use in health care, safety, infection control, vital sign skills, first aid, and CPR certification. In addition, legal and ethical responsibilities are covered, as well as preparing for the world of work. Students will have some limited contact with patients.

MISSION RELATED GOALS:

This class will provide the student with a variety of opportunities to demonstrate academic excellence and intellectual curiosity by communicating effectively, solving complex problems, and working with others toward a common goal. A variety of teaching methods will be used to foster an environment that promotes self-confidence and respect for others throughout the school and global community.

STUDENT EXPECTATIONS FOR LEARNING ADDRESSED:

Students will be afforded opportunities to explore varied health care career paths and trends as well as understand and demonstrate use of medical math, principles of teamwork, leadership, time management, and computer technology. In addition students will identify and understand the health care industry's efforts in relation to cost containment, energy consumption, and accountability practices.

GENERAL PERFORMANCE OBJECTIVES:

The student will be able to:

1. Be familiar with the history of health care and the current trends in the health care industry.
2. Understand the various health care systems present in the United States.
3. Develop a comprehension of health insurance and its impact on health care delivery.
4. Identify and portray the personal and professional qualities of a health care worker.
5. Analyze and discern the difference between various careers in health care.
6. Attain an understanding of the ethical and legal responsibilities and standards involved in health care careers.
7. Realize the important of respecting and understanding cultural diversity in health care.
8. Become familiar with medical terminology.
9. Utilize and make calculation with medical mathematics.
10. Understand and implement computer applications in health care.
11. Use correct body mechanics while performing basic procedures in the laboratory or clinical area.
12. Observe all regulations for patient safety.

13. Explain the principles of infection control and observe and perform standard precautions in the health care setting.
14. Measure and record vital signs.
15. Provide first aid and perform CPR.
16. Identify job-keeping skills and explain why employers consider them to be essential skills.
17. Write a letter of application and resume in preparation for a health career interview.

MASSACHUSETTS COMPREHENSIVE HEALTH CURRICULUM FRAMEWORKS STRANDS:

- Physical Health (Growth & Development, Physical Activity & Fitness, Nutrition, Reproduction, Sexuality)
- Social & Emotional Health (Mental Health, Family Life, Interpersonal Relationships)
- Safety & Prevention (Disease Prevention & Controls, Safety & Injury Prevention, Tobacco, Alcohol, & Other Substances, Violence Prevention)
- Personal & Community Health (Consumer health & Resource Management, Ecological Health, Community & Public Health)

CURRICULUM FRAMEWORK LEARNING STANDARDS:

- I. Describe the growth patterns and body changes within human beings throughout the life cycle. (1.12)
- II. Evaluate the impact of HIV/AIDS on the community, medical resources, and family. (4.19)
- III. Describe the effects of leadership skills on the promotion of teamwork. (5.4)
- IV. Explain positive techniques for handling difficult decisions. (5.19)
- V. Identify techniques for handling anger and resolving conflicts in the family, friendships, and the workplace. (7.10)
- VI. Demonstrate how to discuss procedures and test results with health care providers. (8.16)
- VII. Explain the prevention and control of common communicable infestations, diseases, and infections. (8.19)
- VIII. Analyze the influence of factors (such as social and economic) on the treatment and management of illness. (8.a)
- IX. Explain confidentiality laws and individuals' rights to seek medical treatment. (8.b.)
- X. Analyze the effects of urbanization, medical advances, politics, and public opinion on the transmission, prevention, and treatment of disease. (8.c.)
- XI. Describe practices related to safety conditions in the workplace. (9.18)
- XII. Demonstrate appropriate first aid for stings, bites, broken bones, bleeding, choking, shock, poisoning, burns, and cardiac arrest (cardiopulmonary resuscitation – CPR). (9.19)
- XIII. Describe symptoms and procedures for sudden illness conditions. (9.20)
- XIV. Describe laws related to safety conditions in the workplace. (9b)
- XV. Describe the purpose of medicines (prescription and over-the-counter) and how they can be used or misused in the treatment of common medical problems. (10.2)
- XVI. Identify the mental health and legal consequences of harassment. (11.13)
- XVII. Identify those character traits that are connected with peaceful living in society, such as respectfulness, tolerance, honesty, self-discipline, kindness, and empathy. (11.16)
- XVIII. Demonstrate skills for refusal, negotiation, and collaboration to avoid potentially harmful situations in personal, work, and community relationships. (11.18)
- XIX. Identify and describe health careers. (12.1)
- XX. Explain when and how to use self-care or professional health care services. (12.11)
- XXI. Describe the various methods for gaining access to health care and health insurance. (12.13)
- XXII. Apply planning and management skills to organize tasks and responsibilities. (12.14)
- XXIII. Describe the individual's responsibility to be a wise and informed consumer, including how to plan a budget that includes a spending and savings plan. (12.17)

- XXIV. Evaluate the availability and quality of services for community health. (14.8)
- XXV. Explain how service in community health can improve the physical health of community members. (14.9)
- XXVI. Identify prevalent health concerns and health promotion initiatives in the United States and compare with other parts of the world. (14.10)
- XXVII. Identify the functions of the school, health department, and other community and public health and social service agencies in health promotion and disease prevention through community health initiatives and observances. (14.11)
- XXVIII. Describe the implementation of public health policies, initiatives, and laws, and their subsequent contribution to the quality of life. (14d)

UNITS AND THEMES:

FRAMEWORK STRANDS

I. History and Trends of Health Care	4.19, 8.19, 8.a, 8.b, 8.c, 9.18, 9b, 14.8, 14.10 14.11, 14.d
II. Health Care Systems	12.11, 12.13, 14.8, 14.10, 14.11, 14.d
III. Personal Qualities of a Health Care Worker	5.4, 5.19, 7.10, 11.13, 11.16, 11.18, 12.14
IV. Careers in Health Care	12.1, 14.9
V. Legal and Ethical Responsibilities	8.16, 8.19, 8.b, 10.2, 11.13, 11.16, 11.18, 14.d
VI. Cultural Diversity	11.13, 11.16, 14.10
VII. Medical Terminology	8.16
VIII. Medical Math	8.16, 10.2
IX. Computers in Health Care	8.16, 8.b, 12.1, 14.10
X. Promotion of Safety	8.19, 9.18, 9.b
XI. Infection Control	4.19, 8.19, 8.c, 9b, 14.10
XII. Vital Signs	1.12, 8.16, 12.14
XIII. First Aid	9.19, 9.20
XIV. Preparing for the World of Work	5.4, 5.19, 11.16, 12.1, 12.14, 12.17

COURSE OUTLINE:

I. History and Trends of Health Care	4.19, 8.19, 8.a, 8.b, 8.c, 9.18, 9b, 14.8, 14.10 14.11, 14.d
A. History of Health Care	
B. Trends in Health Care	
II. Health Care Systems	12.11, 12.13, 14.8, 14.10, 14.11, 14.d

- A. Private Health Care Facilities
- B. Government Agencies
- C. Voluntary or Nonprofit Agencies
- D. Health Insurance Plans
- E. Organizational Structure

III. Personal Qualities of a Health Care Worker 5.4, 5.19, 7.10, 11.13, 11.16, 11.18, 12.14

- A. Personal Appearance
- B. Personal Characteristics
- C. Effective Communications
- D. Teamwork
- E. Professional Leadership
- F. Stress
- G. Time Management

IV. Careers in Health Care 12.1, 14.9

- A. Introduction to Health Careers
- B. Dental Careers
- C. Diagnostic Services
- D. Emergency Medical Services
- E. Health Information and Communication Services
- F. Hospital/Health Care Facility Services
- G. Medical Careers
- H. Mental and Social Services
- I. Mortuary Careers
- J. Nursing Careers
- K. Nutrition and Dietary Services
- L. Therapeutic Services
- M. Veterinary Careers
- N. Vision Services

V. Legal and Ethical Responsibilities 8.16, 8.19, 8.b, 10.2, 11.13, 11.16, 11.18, 14.d

- A. Legal Responsibilities
- B. Ethics
- C. Patient's Rights
- D. Advance Directive for Health Care
- E. Professional Standards

VI. Cultural Diversity 11.13, 11.16, 14.10

- A. Culture, Ethnicity, and Race
- B. Bias, Prejudice, and Stereotyping
- C. Understanding Cultural Diversity
- D. Respecting Cultural Diversity

- VII. Medical Terminology** 8.16
- A. Using Medical Abbreviations
 - B. Interpreting Word Parts
- VIII. Medical Math** 8.16, 10.2
- A. Basic Calculations
 - B. Estimating
 - C. Roman Numerals
 - D. Angles
 - E. Systems of Measurement
 - F. Temperature Conversion
 - G. Military Time
- IX. Computers in Health Care** 8.16, 8.b, 12.1, 14.10
- A. Introduction
 - B. What Is a Computer System?
 - C. Computer Applications
 - D. Using the Internet
 - E. Communication
- X. Promotion of Safety** 8.19, 9.18, 9.b
- A. Using Body Mechanics
 - B. Preventing Accidents and Injuries
 - C. Observing Fire Safety
- XI. Infection Control** 4.19, 8.19, 8.c, 9b, 14.10
- A. Understanding the Principles of Infection Control
 - B. Washing Hands
 - C. Observing Standard Precautions
 - D. Maintaining Transmission-Based Isolation Precautions
 - E. Bioterrorism
- XII. Vital Signs** 1.12, 8.16, 12.14
- A. Measuring and Recording Vital Signs
 - B. Measuring and Recording Temperature
 - C. Measuring and Recording Pulse
 - D. Measuring and Recording Respirations
 - E. Measuring and Recording Apical Pulse
 - F. Measuring and Recording Blood Pressure

XIII. First Aid

9.19, 9.20

- A. Providing First Aid
- B. Performing CPR
- C. Providing First Aid for Bleeding and Wounds
- D. Providing First Aid for Shock
- E. Providing First Aid for Poisoning
- F. Providing First Aid for Burns
- G. Providing First Aid for Heat Exposure
- H. Providing First Aid for Cold Exposure
- I. Providing First Aid for Bone and Joint Injuries
- J. Providing First Aid for Specific Injuries
- K. Providing First Aid for Sudden Illness
- L. Applying Dressings and Bandages

XIV. Preparing for the World of Work

5.4, 5.19, 11.16, 12.1, 12.14, 12.17

- A. Developing Job-Keeping Skills
- B. Writing a Letter of Application and Preparing a Resume
- C. Completing Job Application Forms
- D. Participating in a Job Interview
- E. Determining Net Income
- F. Calculating a Budget

SUGGESTED INSTRUCTIONAL STRATEGIES:

1. Lecture
2. Written Exercises (articles, worksheets)
3. Group Work
4. Projects
5. Use a Variety of Questioning Techniques
6. Mathematics Calculation Activities
7. Physical Skills Practice and Demonstration in Classroom
8. Physical Skills Practice and Demonstration in Clinical Setting
9. Video Presentations

SUGGESTED INTEGRATED ACTIVITIES:

1. Field trips
2. Guest speakers
3. Student created questions and posters
4. Role playing
5. Book reference work

USE OF TOOLS/TECHNOLOGY:

1. Medical Tools (stethoscope, blood pressure cuff)
2. Assorted Medical Tools
3. Use of calculators
4. SMARTboard Lessons

5. Charts, Posters
6. Computer Lessons
7. Models, Manikins
8. AED trainer
9. First Aid manipulatives
10. Video

ASSESSMENT TECHNIQUES:

1. Free-response worksheets
2. Oral question/answer
3. Written worksheets with fill in's and free response
4. Homework evaluation
5. Cooperative group work with reported results
6. Teacher observations and physical skills evaluation
7. Written tests and quizzes
8. Classroom discussion
9. Authentic achievement projects
10. Informal assessment during class
11. Practical exams
12. Reflective essays
13. Oral presentations