

Health Science Theory

Exam Information	Description
Exam number TX005 Items 32	The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will become familiar with industry-based standards for documenting and maintaining medical information; research industry employment requirements, including education, certification, and licensing requirements; and evaluate ethical and legal responsibilities of health science professionals. Students will employ hands-on experiences for continued clinical knowledge and skill development.

Exam Blueprint and Performance Skills

Standard	Percentage of exam score
1. Customer Experience	13%
2. Math, English, Social Studies	9%
3. Communication Skills	13%
4. Healthcare Relationships	9%
5. Health Record	9%
6. Employment in Health Science	1%
7. Problem Solving and Decision Making	6%
8. Clinical Skills	13%
9. Ethical and Legal Behavior	9%
10. Leadership Skills	6%
11. Safe Work Environment	6%
12. Wellness and Disease	6%

Standard 1 - Customer Experience

The student demonstrates patient-centered skills and interactions that foster trust and lead to a quality customer service experience. The student is expected to:

Objective 1 Demonstrate care, empathy, and compassion.

Objective 2 Communicate medical information accurately and efficiently in language that patients can understand.

Objective 3 Comply with Health Insurance Portability and Accountability Act (HIPAA) policy standards.

Standard 2 - Math, English, Social Studies

The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to:

Objective 1 Solve mathematical calculations appropriate to situations in a healthcare-related environment.

Objective 2 Express ideas clearly in writing and develop skills in documentation related to health science.

Objective 3 Interpret complex technical material related to the health science industry.

Objective 4 Summarize biological and chemical processes in the body such as maintaining homeostasis.

Objective 5 Research topics related to health science such as the global impact of disease prevention.

Standard 3 - Communication Skills

The student demonstrates verbal, non-verbal, and electronic communication skills. The student is expected to:

Objective 1 Demonstrate therapeutic communication appropriate to the situation.

Objective 2 Use appropriate verbal and non-verbal skills when communicating with persons with sensory loss and language barriers in a simulated setting.

Objective 3 Use electronic communication devices in the classroom or clinical setting appropriately.

Standard 4 - Healthcare Relationships

The student analyzes and evaluates communication skills for maintaining healthy relationships in the healthcare workplace. The student is expected to:

Objective 1 Evaluate how healthy relationships influence career performance.

Objective 2 Identify the role of communication skills in building and maintaining healthy relationships.

Objective 3 Demonstrate strategies for communicating needs, wants, and emotions in a healthcare setting.

Objective 4 Evaluate the effectiveness of conflict-resolution techniques in various simulated healthcare workplace situations.

Standard 5 - Health Record

The student documents and records medical information into a permanent health record. The student is expected to:

Objective 1 Research document formats such as dental or medical records.

Objective 2 Prepare health documents or records according to industry-based standards.

Objective 3 Record health information on paper and electronic formats such as patient history, vital statistics, and test results.

Standard 6 - Employment in Health Science

The student describes industry requirements necessary for employment in health science occupations. The student is expected to:

Objective 1 Research education, certification, licensing, and continuing education requirements and salary related to specific health science careers.

Objective 2 Practice employment procedures for a specific health science career such as resume building, application completion, and interviewing.

Standard 7 - Problem Solving and Decision Making

The student identifies problems and participates in the decision-making process. The student is expected to:

Objective 1 Apply critical-thinking, adaptability, and consensus-building skills to solve problems relevant to health science.

Objective 2 Evaluate the impact of decisions in health science.

Objective 3 Suggest modifications to a decision or plan based on healthcare outcomes.

Standard 8 - Clinical Skills

The student demonstrates comprehension and proficiency of clinical skills used by health science professionals in a classroom or clinical setting. The student is expected to:

Objective 1 Comply with specific industry standards related to safety requirements.

Objective 2 Employ medical vocabulary specific to the healthcare setting.

Objective 3 Perform admission, discharge, and transfer functions in a simulated setting.

Objective 4 Demonstrate skills related to assisting patients with activities of daily living such as dressing, undressing, grooming, bathing, and feeding.

Objective 5 Determine proper equipment needed for patient ambulation such as gait belts, wheelchairs, crutches, or walkers.

Objective 6 Demonstrate skills related to assessing range of motion and assisting with mobility, including positioning, turning, lifting, and transferring patients for treatment or examination.

Objective 7 Role play techniques used in stressful situations such as situations involving trauma and chronic and terminal illness.

Objective 8 Demonstrate first aid, vital signs, cardiopulmonary resuscitation, and automated external defibrillator skills.

Objective 9 Identify basic skills specific to a health science profession such as medical assistant, dental assistant, emergency medical technician-basic, phlebotomy technician, and pharmacy technician.

Standard 9 - Ethical and Legal Behavior

The student evaluates ethical behavioral standards and legal responsibilities of a health science professional. The student is expected to:

Objective 1 Research and describe the role of professional associations and regulatory agencies.

Objective 2 Examine legal and ethical behavior standards such as Patient Bill of Rights, advanced directives, and HIPAA.

Objective 3 Investigate the legal, ethical, and professional ramifications of unacceptable or discriminatory behavior.

Standard 10 - Leadership Skills

The student exhibits the leadership skills necessary to function in a healthcare setting. The student is expected to:

Objective 1 Identify essential leadership skills of health science professionals.

Objective 2 Assess group dynamics in real or simulated groups.

Objective 3 Integrate consensus-building techniques.

Standard 11 - Safe Work Environment

The student maintains a safe work environment. The student is expected to:

Objective 1 Describe governmental regulations and guidelines from entities such as the World Health Organization (WHO), Centers for Disease Control and Prevention (CDC), Occupational Safety and Health Administration (OSHA), U.S. Food and Drug Administration (FDA), The Joint Commission, and the National Institute of Health (NIH), and Texas Department of State Health Services (DSHS).

Objective 2 Explain protocols related to hazardous materials and situations such as personal protective equipment (PPE) and blood borne pathogen exposure.

Objective 3 Describe how to assess and report unsafe conditions.

Objective 4 Identify the benefits of recycling and waste management for cost containment and environmental protection.

Objective 5 Demonstrate proper body mechanics to reduce the risk of injury.

Standard 12 - Wellness and Disease

The student assesses wellness strategies for the prevention of disease. The student is expected to:

Objective 1 Research wellness strategies for the prevention of disease.

Objective 2 Evaluate positive and negative effects of relationships on physical and emotional health.

Objective 3 Explain the benefits of positive relationships between community members and health professionals in promoting a healthy community.

Objective 4 Research and analyze the effects of access to quality health care.

Objective 5 Research alternative health practices and therapies.

Objective 6 Explain the changes in structure and function of the body due to trauma and disease.