

eDynamic Learning Course Title: Health Science Foundations 1a: Introduction; Health Science Foundations 1b: Professional Responsibilities

State: Texas

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State Course Code: 130.22

State Standards: Principles of Health Science

Date of Standards: 2017

TEKS	Unit Name(s)	Lesson(s) Numbers
(1) The student demonstrates professional standards/employability skills as required by business and industry.		
(A) express ideas in a clear, concise, and effective manner;	Unit 6a: Effective Communication in Healthcare	Lessons 1-4
(B) exhibit the ability to cooperate, contribute, and collaborate as a member of a team; and	Unit 7b: Teamwork and Leadership	Lessons 1-4
(C) identify employer expectations such as punctuality, attendance, time management, communication, organizational skills, and productive work habits.	Unit 8b: Employability in Healthcare	Lessons 1, 2
(2) The student applies mathematics, science, English language arts, and social studies in health science.		
(A) convert units between systems of measurement;	Unit 5b: Data, Measurement and Math	Lessons 2, 3
(B) apply data from tables, charts, and graphs to provide solutions to health-related problems;	Unit 5b: Data, Measurement and Math	Lesson 4
(C) interpret technical material related to the health science industry;	Units 1-8, parts A and B	All Lessons
(D) organize, compile, and write ideas into reports and summaries;	Units 1-8, parts A and B	All Lessons
(E) plan and prepare effective oral presentations;	Units 1-8, parts A and B	All Lessons
(F) formulate responses using precise language to communicate ideas;	Unit 6a: Effective Communication in Healthcare	Lessons 1-4
(G) describe biological and chemical processes that maintain homeostasis;	Unit 3a: Anatomy, Physiology and Medical Terminology in a Nutshell	Lesson 2

(H) identify and analyze principles of body mechanics and movement such as forces and the effects of movement, torque, tension, and elasticity on the human body;	Unit 3a: Anatomy, Physiology and Medical Terminology in a Nutshell	Lesson 3
(I) identify human needs according to Maslow's Hierarchy of Human Needs;	Unit 4a: Growth and Development Throughout the Lifespan	Lesson 4
(J) describe the stages of development related to the life span;	Unit 4a: Growth and Development Throughout the Lifespan	Lessons 1-4
(K) identify the concepts of health and wellness throughout the life span;	Unit 4a: Growth and Development Throughout the Lifespan	Lessons 1-4
(L) analyze and evaluate communication skills for maintaining healthy relationships throughout the life span;	Unit 4a: Growth and Development Throughout the Lifespan	Lessons 1-4
(M) research the historical significance of health care;	Unit 2a: Healthcare Today: The Business of Caring	Lesson 4
(N) describe the impact of health services on the economy;	Unit 2a: Healthcare Today: The Business of Caring	Lesson 3
(O) analyze the impact of local, state, and national government on the health science industry;	Unit 2a: Healthcare Today: The Business of Caring	Lesson 2
(P) identify diverse and cultural influences that have impacted contemporary aspects of health care delivery; and	Unit 2a: Healthcare Today: The Business of Caring	Lesson 4
(Q) research and compare practices used by various cultures and societies to solve problems related to health.	Unit 2a: Healthcare Today: The Business of Caring	Lesson 4
(3) The student uses verbal and nonverbal communication skills.		
(A) identify components of effective and non-effective communication;	Unit 6a: Effective Communication in Healthcare	Lessons 1-4
(B) demonstrate effective communication skills for responding to the needs of individuals in a diverse society;	Unit 6a: Effective Communication in Healthcare	Lesson 2
(C) evaluate the effectiveness of conflict-resolution techniques in various situations; and	Unit 7b: Teamwork and Leadership	Lesson 4
(D) accurately interpret, transcribe, and communicate medical vocabulary using appropriate technology.	Unit 7b: Teamwork and Leadership	Lesson 4
(4) The student implements the leadership skills necessary to function in a democratic society.		
(A) identify traits of a leader;	Unit 7b: Teamwork and Leadership	Lesson 3

(B) demonstrate leadership skills, characteristics, and responsibilities of leaders such as goalsetting and team building; and	Unit 7b: Teamwork and Leadership	Lesson 3
(C) demonstrate the ability to effectively conduct and participate in meetings	Unit 7b: Teamwork and Leadership	Lesson 4
(5) The student assesses career options and the preparation necessary for employment in the health science industry.		
(A) locate, evaluate, and interpret career options and employment information; and	Unit 8b: Employability in Healthcare	Lessons 1, 4
(B) recognize the impact of career decisions, including the causes and effects of changing employment situations.	Unit 8b: Employability in Healthcare	Lessons 1, 4
(6) The student identifies academic preparation and skills necessary for employment as defined by the health science industry. The student is expected to identify academic requirements for professional advancement such as certification, licensure, registration, continuing education, and advanced degrees.	Unit 1a: Considering a Career in Healthcare? Finding the Right Role	Lesson 3
(7) The student identifies the career pathways related to health science.		
(A) compare health science careers within the diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems; and	Unit 1a: Considering a Career in Healthcare? Finding the Right Role	Lesson 1
(B) identify the collaborative role of team members between systems to deliver quality health care.	Unit 1a: Considering a Career in Healthcare? Finding the Right Role	Lesson 2
(8) The student examines the role of the multidisciplinary team in providing health care.		
(A) explain the concept of teaming to provide quality health care; and	Unit 1a: Considering a Career in Healthcare? Finding the Right Role	Lesson 2
(B) examine the role of professional organizations in the preparation and governance of credentialing and certification.	Unit 1a: Considering a Career in Healthcare? Finding the Right Role	Lesson 3
(9) The student interprets ethical behavior standards and legal responsibilities.		
(A) compare published professional codes of ethics and scope of practice;	Unit 8a: Ethical Responsibilities	Lesson 2
(B) explain principles of ethical behavior and confidentiality, including the consequences of breach of confidentiality;	Unit 8a: Ethical Responsibilities	Lessons 1-4
(C) discuss ethical issues related to health care, including implications of technological advances;	Unit 8a: Ethical Responsibilities	Lesson 3
(D) examine issues related to malpractice, negligence, and liability; and	Unit 7a: Healthcare and the Law	Lesson 4
(E) research laws governing the health science industry	Unit 7a: Healthcare and the Law	Lessons 1-5
(10) The student recognizes the rights and choices of the individual.		
(A) identify situations related to autonomy;	Unit 7a: Healthcare and the Law	Lesson 2
(B) identify wellness strategies for the prevention of disease;	Unit 5a: Health and Wellness	Lesson 4
(C) evaluate positive and negative effects of relationships on physical and emotional health such as peers, family, and friends in promoting a healthy community;	Unit 5a: Health and Wellness	Lessons 1-4

(D) review documentation related to rights and choices; and	Unit 2a: Healthcare Today: The Business of Caring	Lesson 4
(E) demonstrate an understanding of diversity and cultural practices influencing contemporary aspects of health care.	Unit 2a: Healthcare Today: The Business of Caring	Lesson 4
(11) The student recognizes the importance of maintaining a safe environment and eliminating hazardous situations.		
(A) identify governing regulatory agencies such as the World Health Organization, Centers for Disease Control and Prevention, Occupational Safety and Health Administration, U.S. Food and Drug Administration, Joint Commission, and National Institute of Health;	Unit 1b: Health, Safety and Security	Lessons 2, 3
(B) identify industry safety standards such as standard precautions, fire prevention and safety practices, and appropriate actions to emergency situations; and	Unit 1b: Health, Safety and Security	Lessons 1-5
(C) relate safety practices in the health science industry	Unit 1b: Health, Safety and Security	Lessons 1-5
(12) The student identifies the technology used in the diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems.		
(A) research and identify technological equipment used in the diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems;	Unit 6b: Technology in Healthcare	Units 1-3
(B) identify potential malfunctions of technological equipment; and	Unit 6b: Technology in Healthcare	Units 1-4
(C) recognize and explain the process for reporting equipment or technology malfunctions.	Unit 6b: Technology in Healthcare	Unit 1