

Foundations of Health Science

Instructor: Hannah Whigham
hwhigham@dalecountyboe.org

Course Description: Foundations of Health Science is a one-credit course that introduces students to a wide range of health careers. This course is designed to focus on basic medical terminology, body structure and function, and legal and ethical implications in health care. Students will be introduced to and practice skills required for health care careers. This course is the prerequisite for all health science courses except Medical Terminology. It is recommended for students who want to prepare for further study in health-related fields at the postsecondary level. Students will have the opportunity to obtain Stop The Bleed Certification.

Course Fees: HOSA Fee: \$20.00 Class Fee: \$20.00 Total: \$40.00

CTSO: HOSA – Future Health Professionals

HOSA (Health Occupations Students of America) is an integral, co curricular component of each health science education course. This organization serves as a means to enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and broaden opportunities for personal and professional growth.

Prerequisites: None

Essential Question: What skills and knowledge are essential for success as a health care worker in the 21st century?

Course Goals:

Upon completion of this course the student will learn how to:

1. Follow safety procedures properly.
2. Perform high quality work.
3. Demonstrate quality behavior.
4. Demonstrate standards and skills needed to contribute to society, specifically the health career industry.

Instructional Philosophy: The Health Science philosophy is to provide an environment for developing proper skills, knowledge, safety habits, work ethics and pride in achievements. Students will be expected to meet all of the course goals and to demonstrate their understanding of the underlying concepts. Lecture, videos, computers, demonstration, questions and answer, laboratory, guest speakers, field trips and hands-on application will be utilized as instructional methods. **Please note that all students in the Health Science Program are**

exposed to all aspects of the human body. This information may be in the form of videos, speakers, assignments, or field trips. ALL materials in the classroom are important for student learning. If you have concerns regarding learning activities, please contact me by letter. Failure to respond in writing will automatically submit your approval.

Text and Materials: A variety of resources will be utilized in the classroom. The student will be utilizing the core textbook Diversified Health Occupations in the classroom and the digital resources. Textbooks can be checked out at the end of the day for make-up work but must be returned prior to 1st block the next morning. All textbooks will be returned prior to taking the final exam. If a textbook is not returned the student will be responsible for paying for the book.

Students will also be using Health Science laptops in the classroom. Students who damage or do not use the technology appropriately will lose their privileges for using the equipment.

Attendance/Make-up Work: The school policy will apply. **It is the student's responsibility to make up work upon returning from an absence and schedule make up times with the instructor at the instructor's convenience.**

Assessment Procedures:

Projects	20%
Major Grades	20%
Daily Grades	50%
Participation	10%

Classroom Expectations and Procedures:

1. All rules, procedures, and policies in the DCHS Student Handbook will apply to this course and classroom.
2. Class begins when you enter the door.
Cell phone usage **IS NOT** allowed in the health science classroom. (Each student has a computer and iPad)

Available Student Industry Credential(s): Stop The Bleed Certification

Please sign and return to acknowledge you have read AND understand the above syllabus.

Student's Name: _____ Student's Signature: _____

Parent's Name: _____ Parent's Signature: _____

Way in which the parent chooses to be notified (please circle): phone text email other

Please provide the appropriate means to contact you depending upon your above choice: _____

Course Outline: Welcome to Health Science

Safety

- Safety & Infection Control – *AL COS 3, 4*
 - Handwashing Skill
 - PPE (Personal Protective Equipment) & Gloving Skills

Careers (pp. 3-20)

- Healthcare Career Clusters – *AL COS 1, 2, 3, 15*
 - Career Interest Survey, Financial Planning, Education Requirements, Health Science Clusters

Employability Skills and Professionalism (pp. 357-383)

- Employability Skills and Professionalism – *AL COS 2, 7, 8, 9, 10, 11, 12*
 - Personal Appearance and Hygiene, Interpersonal Skills, Communication Skills, Employer Expectations, Job-Seeking Skills, THINK BIG
- HOSA – *AL COS 2, 8*
 - HOSA Power Point, Video, Worksheet, Newsletter, Website

Healthcare Systems & Legal/Ethical (pp. 21-50)

- Healthcare Systems – *AL COS 1, 2, 3, 8, 10, 12*
 - History of Health Care, Timeline of Health Care, Trends in Health Care, Health Care Facilities, Health Care Agencies, Health Insurance, Information Technology in Health Care
- Legal/Ethical
 - Patient's Bill of Rights, Documentation, HIPAA, Malpractice, Negligence, Advanced Directive, Ethical Issues

Anatomy, Basic Medical Terminology & Abbreviations (pp. 79, 85-87, 104-114, 127-128, 131-138)

- Anatomy Overview – *AL COS 5, 6, 7, 8, 12, 13, 14*
 - Cells, Tissues, Organ Systems, Body Cavities, Directions, Regions, and Planes
- Basic Medical Terminology, Medical Math & Abbreviations – *AL COS 5*
 - Parts of a Medical Term, Reading Medical Terms

First Aid (pp. 88-97, AHA Student Manual)

- AHA First Aid Certification – *AL COS 4, 6, 7, 13, 14*

Cardiovascular and Respiratory (pp. 119, 121, 158-163, 168-171, 286-305)

- Circulatory & Respiratory Systems (with Medical Terminology) - *AL COS 5, 6, 7, 8, 12, 13, 14*
- Vital Signs - *AL COS 5, 6, 7, 8, 12, 13, 14*

Integumentary, Lymphatic, and Immune (pp. 61, 60-78, 115, 120, 139-141, 164-167)

- Integumentary, Lymphatic, & Immune Systems (with Medical Terminology) – *AL COS 5, 6, 7, 8, 12, 13, 14*

Musculoskeletal (pp. 53-59, 82-84, 116, 142-146, 147-149)

- Musculoskeletal System (with Medical Terminology) – *AL COS 5, 6, 7, 8, 12, 13, 14*
- Accidents & Injuries with Body Mechanics – *AL COS 3, 4*

Nervous (pp. 92, 117-118, 150-153, 154-157, 359-361)

- Nervous & Sensory Systems (with Medical Terminology) – *AL COS 5, 6, 7, 8, 12, 13, 14*

Gastrointestinal and Endocrine (pp. 122, 124, 172-173, 179-181)

- Gastrointestinal (Digestive) & Endocrine Systems (with Medical Terminology) - *AL COS 5, 6, 7, 8, 12, 13, 14*

Genitourinary (pp. 123, 125, 177-178, 182-185)

- Genitourinary System (Reproductive & Urinary - with Medical Terminology) - *AL COS 5, 6, 7, 8, 12, 13, 14*

Health and Wellness (pp. 225-298)

- Health & Wellness
 - Human Growth and Development
 - Nutrition