

Health Science Program

Course Title: Foundations of Health Science

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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.

Course Fees: The course fee is \$26.00; the due date for fees is due by Friday, September 1, 2017. In accordance with school policy, students eligible for reduced lunches pay \$13.00 and free lunches are exempt from paying the fee. It is the student's responsibility to inform the teacher and provide documentation of their eligibility. Parents may pay the Health Science course fee online at www.MyPaymentsPlus.com using a credit card or debit card. This system also allows parents to access their student's account (even if parents are not paying online) to view available areas needing payment.

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.

All students are encouraged to join HOSA. Membership is optional, not required.

Prerequisites: None

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

Program Goals:

1. Develop a body of knowledge common to all health care careers.
2. Meet learning needs of all health science students.
3. Promote character growth and development including human relations, good work habits, positive attitudes toward fulfillment of responsibilities and establishment of ethical values.
4. Develop the skills of logical thinking, communication, problem solving, and decision making.

Course Goals:

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

1. Describe health science pathways and careers.
2. Describe roles and responsibilities of individuals as members of a health care team.
3. Compare health care delivery systems for services, types of facilities, and access to care.
4. Demonstrate safe work practices in health care, including adherence to Occupational Safety and Health Administration (OSHA) standards, observance of emergency procedures and protocol, and knowledge of body mechanics as related to the field of ergonomics.
5. Identify basic medical symbols and terms, including pronunciation, abbreviations, prefixes, suffixes, and root words.
6. Describe basic structures and functions of human body systems.
7. Use effective communication skills in the field of health care, including addressing clients respectfully.
8. Use information technology applications required for health science careers.
9. Demonstrate employability traits needed in health science careers.
10. Recognize legal responsibilities, limitations, and implications within the health care delivery setting.
11. Explain ethical practices and issues required within the health care setting.
12. Describe fundamentals of health promotion and wellness.
13. Demonstrate common technical skills required in the health care industry.
14. Use mathematics concepts in a health-related setting.
15. Create a personal career plan in a chosen health science pathway.

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. The course requires students to use academic skills, such as mathematics, science, and language arts. Students will be expected to take part in discussions, work in groups, work individually, and complete homework assignments. All assignments are to be completed on time. All homework assignments are due upon entering the class. **If an assignment is not turned in at the assigned time a minimum of 10 points will be deducted for each day the assignment is late.**

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 email. 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 Healthcare Science Technology: A Complete Online Learning System by Kathryn A. Booth in the classroom and the digital resources in CONNECT (McGraw-Hill's online student resource). 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 and iPads in the classroom. Students who damage or do not use the technology appropriately will lose their privileges for using the equipment.

Essential Functions of the Students:

In order to successfully complete this course, the student must be able to:

1. Read on grade level.
2. Complete assignments independently and successfully pass skill performance evaluations.
3. Follow and apply basic safety requirements; wear required personal protective equipment/uniform.
4. Collect and analyze data, use critical thinking skills and problem solving.
5. Use and care for medical equipment and supplies safely, including medical lab equipment.
6. Perform mathematical calculations.
7. Prepare and type written reports and use effective written and oral communication.
8. Use a variety of technology equipment: computers, monitors, simulators, iPads, etc.

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.** Exams given during the absence, and new material was covered, must be made up within **three** days of returning to class. Assignments given during the absence must be made up within **one** day of returning to class, unless special permission is granted. However, if a student is absent on an exam day/assignment day and the exam/assignment was scheduled prior to the student being absent, the student will make-up the exam/assignment **upon returning** to class (during class time). Students who miss an exam may/ will be given a fill-in-the-blank exam without a word bank.

Students who miss class due to school related activities must make arrangements with the instructor **prior** to the absence. Advanced assignments and tests/exams will be turned in and taken prior to the time of absence.

* **It is the student's responsibility to check with their classmates and iNow to see what assignments they missed during their absence.**

* **Failure to make up work/exams the allotted time will result in a zero.**

Course Requirements:

1. Complete reading, written assignments and tests.

2. Perform a variety of healthcare skill for instructor evaluation.

Assessment Procedures: Student assessment will be determined from exams, homework assignments, classroom assignments, course projects, etc. A comprehensive final exam will be given at the end of the semester. Exams (60%), assignments – homework, class work, pop quizzes, etc. (40%), will constitute 80% of the student’s final grade. The comprehensive final exam will comprise 20% of the student’s final grade.

Grading Scale:

A	=	90-100
B	=	80-89
C	=	70-79
D	=	60-69
F	=	59 and below
I	=	Incomplete
NC	=	No Credit (due to excessive absences)

Students Expectations: Students are expected to study and come prepared for class each day, to listen for instructions and follow instructions, show respect to the teacher and classmates at all times, to place all materials (computers, iPads, etc.) in assigned locations and connect for recharging prior to leaving the classroom, and to clean up after themselves. Misconduct will not be tolerated. The school code of conduct policy will apply.

The classroom disciplinary process is as follows:

1. Verbal warning – may be assigned to stay after school or report before school for conference
2. Parent notification attempted
3. Referral to administration

Classroom Expectations and Procedures:

1. All rules, procedures, and policies in the EHS Student Handbook will apply to this course and classroom.
2. Class begins when you enter the door.
 - a. Once you are in the classroom, you are IN the classroom.
 - b. Turn in any homework assignment/project in the appropriate box.
 - c. Turn your cell phone off , place book bags in the assigned spot
 - d. Check the board the class assignment.
 - e. Gather your materials.
 - f. Take your seat.

- g. Nothing should be on your table top except the materials that apply to what is being taught that day in this class.
 - h. Begin your assignment.
 - i. Students are not permitted to work on other academic class assignments. If students are found to working on other class assignments during health science class, the student will be written up for disciplinary action.
 - j. Cell phone usage **IS NOT** allowed in the health science classroom. (Each student has access to a computer and iPad)
3. BYOD – The Health Science classroom is blessed to have state of the art equipment. The classroom has iPads and laptops for each student. Therefore, at present time students do not need their own device. Cell phones will be turned **OFF** and place in an assigned place in the classroom. Parents **ARE NOT** to call or text the student during class time. In an emergency, the school phone number is 347-2640. The cell phone is not to be touched unless prior permission is given by the instructor. Other devices will need to be kept in the student’s locker. If for some reason the class requires the use of a student cell phone, students will:
- a. always log on to the BOE network.
 - b. not text anyone.
 - c. not social network.
 - d. only perform school related searches.
4. See Health Science Classroom Expectations Handout

Safety Rules:

1. Do not use equipment that is damaged or does not start to run properly; notify the instructor.
2. DO NOT lift objects that are too heavy. Keep back straight, knees bent, and get help as necessary.
3. Walk, do not run and watch for wet floors.
4. Wash hands often.
5. Wear proper equipment for handling infectious and/or hazardous materials.
6. Dispose of infectious wastes/hazardous materials properly.
7. Use caution when handling liquids/fluids or chemicals, wipe spills immediately with proper equipment.
8. Do not handle electrical equipment with wet hands.
9. When driving, obey all traffic safety laws and wear a seat belt.

Field Trips and/or Guest Speakers

During each field trip or guest speaker the following guidelines are to be followed.

1. Students are to pay attention to what the speaker has to say.
2. DO NOT talk, sleep, socialize or do work of any kind while the guest is present.

3. Respond to questions posed by the speaker and have questions for the speaker.
4. Applaud at the end of the presentation and make an effort to thank the speaker or tour guide.
5. A write-up of guest speakers or field trips may be assigned following the presentation.
6. Missed guest speakers and field trips must be made up through completion of a 2 page, 12 font, typewritten paper of a subject assigned by the teacher related to the speaker/field trip missed.

Conferences:

I welcome the opportunity to answer questions and concerns as well as share my own. Parent-teacher conferences may be scheduled during my planning period. These conferences may be done in person or by phone. You may schedule a conference by contacting me through email @ vrobertson@enterpriseschools.net. In-person conferences must be monitored by an administrator or counselor and will be set up through the guidance department. Throughout the term I will also be contacting parents to share information or news that is occurring in the classroom.

Course Outline:

Employability Skills and Professionalism (pp. 357-383)

- Welcome to Health Science
- 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

Careers (pp. 3-20)

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

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 & Abbreviations – *AL COS 5*
 - Parts of a Medical Term, Reading Medical Terms
- Fire Safety – *AL COS 3, 4*

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*
- Safety & Infection Control – *AL COS 3, 4*

- Hand washing Skill
- PPE (Personal Protective Equipment) & Gloving Skills

Musculoskeletal and Safety (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*
- Safety Test

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

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

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*

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*

Legal and Ethical Issues (pp. 333-356)

- Legal and Ethical Issues in Health Care – *AL COS 2, 7, 8, 9, 10, 11, 12*

Health and Wellness (pp. 225-298)

- Health & Wellness
 - Human Growth and Development
 - Nutrition