HEALTHCARE SCIENCE 3- 5552-Human Structure and Disease Course Syllabus

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Office Hours: Monday through Friday 8:00 am through 3:30 pm

Course Description:

Healthcare Science Human Structure, Function, and Disease acquaints students with basic anatomy and physiology of the human body ,common diseases, and disorders. Students learn how the human body is structured and the function of each of the 14 body systems. Students will study the relationship that body systems have with disease from the healthcare point of view. This is a very “hands-on” course, and students will learn through projects and activities in the classroom. Skill procedures and foundation standards are reviewed and integrated throughout the program. Job shadowing is encouraged. This course does not count as lab science. Medical Terminology is also integrated throughout this course. This course helps to prepare students for the healthcare field and for college level anatomy and physiology courses required for students seeking a career in healthcare.

General Requirements:

This is a rigorous course designed for students in grades 10 through 12. This course may be counted as one of the optional third unit choices in a three unit or four-unit completer path. It is recommended to take as the 3rd course in the Physical Healthcare Subcluster. To advance to any Physical Healthcare Subcluster courses, students must achieve a score of 75% or higher in each Physical Healthcare course taken. Students scoring less than 75% must have a direct recommendation from the instructor of the course that the minimum requirement was not met.This course is recommended for students in grades 10 through 12. Required prerequisites are the successful completion of Health Science 1, and Health Science 2 with a 75% or higher-grade average.

Students must have completed Biology 1 or be concurrently enrolled. Students are recommended to be First Aid and CPR certified before this course. Students should be familiar with general medical terminology as well as technical skills associated with vital signs. (Skills learned in previous courses).

CREDIT: CP - 1 unit = (120 hours) To achieve honors weighting, courses must meet the criteria in the SC Honors Framework.

State Standards:
https://ed.sc.gov/instruction/career-and-technical-education/programs-and-courses/career-clusters/health-science-education/health-science-3/

Learning/Development Goals :

By the end of the course, Healthcare Science 3 students will build upon previously learned Healthcare Science 1 and 2 standards and:

By the end of this course, students will be able to:

- Describe the structure and function of human body systems.
- Explain the relationship between anatomy, physiology, and common diseases.
- Use medical terminology accurately in both written and verbal communication.
- Identify signs, symptoms, diagnostic procedures, and treatments for common disorders.
- Apply critical thinking and problem-solving skills to case studies and real-world health scenarios.
- Demonstrate understanding of infection control and disease prevention practices.
- Utilize technology and research skills to explore medical innovations and careers.
- Exhibit professionalism, teamwork, and effective communication in healthcare contexts.

COURSE COMPETENCIES AND LEARNING OBJECTIVES:

1. Medical Terminology

- Use common roots, prefixes, suffixes, and abbreviations to communicate medical information related to body systems and disease.

2. Anatomy & Physiology

- Understand levels of body organization, planes, and homeostasis.
- Identify structures and functions of the following systems:
    - *Part A:* Skeletal, Muscular, Integumentary, Cardiovascular, Lymphatic/Immune, Respiratory
    - *Part B:* Nervous, Endocrine, Digestive, Urinary, Reproductive, Special Senses

3. Diseases and Disorders

- Describe causes, symptoms, diagnosis, treatment, and prevention of common diseases for each body system.
- Research emerging diseases and discuss new biomedical therapies including gene therapy, immunizations, and stem cell research.

4. Medical Mathematics

- Apply basic healthcare math skills and interpret data using charts, tables, and graphs.

5. Information Technology in Healthcare

- Understand and apply electronic health records (EHR), medical data tools, and health informatics practices while following legal guidelines.

*Review National Health Science Standard 4: Employability Skills and 7: Safety, before entering work-based learning opportunities, if appropriate for your program.

WORK BASED LEARNING:

This semester we will also do work based learning/study hours and have shadowing days at facilities. Permission slips will be sent home for each student. The goal is to accumulate 40 hours or more of work based learning in a clinical setting or here in our lab.

Students must have a negative TB test, seasonal flu immunization, and immunization schedule documentation prior to work-based learning or work-based observation.

Instructional Materials Needed in Class:

Chromebook, pen, pencils, highlighter, **1 or more Navy blue scrub sets for Work based study, students will use these for CNA Clinical study as well in the Spring semester.**

Assignments

Students will receive instructions in class and Google Classroom about assignments and when they are due.

Grading Procedure

Major assessments will generally occur at the end of each unit. Quizzes will be given periodically to check for comprehension. Students will be required to perform skill demonstrations to the instructor for a grade. Grades are weighted per District Policy*

- Major Assessments (tests, projects) 40%
- Formative Assessments (quizzes, labs) 30%
- Homework/Classwork 20%
- Writing assignments 10%

= 100%

*per Marion County School District guidelines for grading scale with requirements

If you are absent, it is the student's responsibility to make arrangements to make up any missed assignments. **Work must be made up within 5 days of returning to school. Anything not made up by this time will become a zero unless prior arrangements have been made.**

I do not assign homework and any research or projects are done during class time. **Classwork is due the day of class. I give time in class for classwork to be completed. If it is not submitted by the end of class, classwork/participation grade will be a ZERO. No makeup unless you are absent and then the policy above applies.**

If you need extra help, let me know and we will set aside a time that we can work together.

Presentation of rules and procedures

The first week of school, students are given a copy of classroom rules and procedural guidelines. A copy of this is posted in the Google classroom. During the first week of school, school rules, consequences, and procedures are reviewed with the students.

Students must read, sign and return acknowledgment of rules and consequences. A file is kept of these signatures in the classroom. These are reviewed as necessary.

CLASS ROOM RULES

1. Treat class as a job site.
2. Be on time to class. You are considered tardy if you are not in the classroom by the time the tardy bell rings and the classroom door is closed.
3. **Marion County School district attendance policy applies to this course. i.e. No more than 10 unexcused absent days per semester (both 9 weeks). >10 unexcused days will result in AF-Attendance failure.**
4. Show respect for your teacher and for your classmates. Disrespectful language, gestures, or attitudes will not be tolerated in my class.
5. Do not interfere in any way with the learning taking place in the classroom. Talking, making unnecessary noise, being out of your seat without permission are all deterrents to learning.
6. Follow directions the first time. You should obey directions asked of you by a teacher promptly and without any hesitation.
7. Come to class prepared with all necessary materials
8. Electronic devices/**CELL PHONES** will be used in class **ONLY as instructed. Cellphones must be turned off or silent and in the student's bookbag and not on their person during class time. This is in adherence to the SC state policy .**
9. Do not use any equipment unless given instruction and permission by the teacher.
10. Clean up after yourself
11. Obey all school rules outlined in the student handbook
12. **NEVER TALK DURING INSTRUCTION TIME OR WHEN SPEAKER IS PRESENT! THIS WILL NOT BE TOLERATED, AND YOU WILL BE ASKED TO LEAVE THE CLASS AFTER RECEIVING THE FIRST WARNING and TEACHER WILL CALL PARENTS/GUARDIAN**

TARDY POLICY:

If you are not in the classroom when the bell rings, you are tardy. Students who are tardy must go to the front office to get a tardy slip to be admitted to class. Be mindful of habitual tardiness and the district's attendance policy.

LAB SAFETY:

Students are required to take a lab safety test and must make a 100% before they will be allowed to participate in the lab. Students will receive a lecture the first week of classes. Students who do not pass must remediate and re-take the exam until they make a 100%.

EMERGENCY SITUATIONS:

If you learn of a school or an area emergency, please do not rush to school to pick up your child. Additional traffic will block any needed emergency vehicles. Your presence in the

school building could delay the evacuation process. Each school's emergency response plan includes procedures for protecting children as the first priority, followed by a system of reuniting them with you in a safe, orderly, and timely manner. As parents, you play an essential role in keeping students safe during an emergency. Please know that our highest concern is your child's safety. The district and each school have emergency response plans covering natural disasters and other emergencies. If you wish to discuss specific concerns or have any questions regarding our safety plans, call your school principal or the district's emergency services manager at 843.423.1811.

What you should know:

Lockdown

This is a response to an immediate threat to the campus such as an intruder in the building. Classrooms and all entrances are locked. Students remain in their classrooms with their teacher and no one is permitted to enter or leave the building until the situation is resolved. Staff and law enforcement (school resource officer) will be in the halls.

A lockdown is usually for a short duration. The lockdown will be canceled as soon as it is determined the threat no longer exists.

Hold

This is in response to a general threat to the area or campus. All entrances are locked and no one is permitted to leave the building. Normal instructional activities continue. Staff and law enforcement (school resource officer) will be in the halls. Anyone entering the building will be required to state the reason they need to come in (pick up a student for a doctor's appointment) and show a photo ID.

A hold may continue for an extended period of time and will be canceled when the threat no longer exists.

With both procedures, as parents, you should know that your student is in a secure environment with increased staff and law enforcement presence. We would ask that you not come to the school unless it is an absolute emergency. You are placing yourself and others in danger by entering the threat area.

DISCIPLINE

1st offense: A verbal warning will be given when a minor classroom or school rule is broken, unless the discipline code calls for a referral.

2nd offense: Telephone call to the parent/guardian.

3rd offense: Referral to ACT administration

Sensitive Topics

Within Health science and health care we have a variety of topics that are not taught within the general education curriculum. For example, during our infection control unit, we will cover a wide variety of infections and how they are transmitted. This also includes a discussion on sexually transmitted infections because they are a part of a health care worker's role. We cover other sensitive topics as well, including drug abuse, mental health,eating disorders, COVID, abuse as well as many other ethical issues in athletics and in health care. Topics to be taught will include facts and present multiple view points using those facts. My intention as the instructor is not to force a viewpoint on my students, but rather give them the information and let them decide for themselves. In the past, students often had lively, yet civilized discussions among their classmates with these topics. I enforce a civil discussion and do not allow students to belittle one another's views.

I am more than happy to discuss any concerns or questions regarding these sensitive topics with you. If you do not want your student participating in any of these lessons, please let me know. I can also provide alternative assignments if you wish. I look forward to continuing to teach your child and helping to prepare them for jobs in health care.

Communication with Parents

Please indicate how you would prefer to be contacted by providing your information.

Best Contact Number/Cell phone: _____

Email: _____

IMPORTANT INFORMATION: To gain access to PowerSchool. The website location is: https://marion10.powerschool.com/public/home.html You will need the information from your child's school counselor to complete your setup information for your child. You need a separate letter if you have multiple children.

Please sign and return after reading.

_____ _____

Parent Signature **Student Signature**

Please also indicate if your child **will have access** to the **internet** for the on-line textbook homework reading and assignments.

Yes my child will have internet access _____

No my child will not have internet access ____