



## **Course Syllabus**

### **FOUNDATIONS OF HEALTH SCIENCE**

**James Clemens High School**  
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#### ***I. Course***

##### ***Description:***

#### **FOUNDATIONS OF HEALTH SCIENCE (490007)**

Foundations of Health Science is a one credit course that spans 18 weeks, introducing students to a wide range of health careers. Integrated academics combined with health care knowledge & skills provide the framework for a strong healthcare delivery system in the twenty-first century. This course is a **prerequisite** for Health Science Internship, and **requirements for progression are listed following the grading policy**. It is recommended for all students who want to prepare for further study in an array of health-related fields at the post secondary level. **This course is a substitute for the state required health credit. It is acceptable for 9th - 12th graders to take this course, but students should be aware that their CPR certification may expire prior or during internship.**

The course also includes information concerning the practices for promoting health, wellness, and disease prevention. Instruction and learning activities are provided in a classroom laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices. Students will also gain a multitude of knowledge related to medical terminology as well as abbreviations in order to better understand the medical fields.

Career and technical student organizations are integral, co-curricular components of each career and technical education course. These organizations serve 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. Students are encouraged to participate in **HOSA**, future healthcare professionals. Competitive events that relate to specific topics discussed in class will be highlighted.

**No Prerequisite required for this course.**

#### **Instructional Philosophy:**

This program supports & incorporates the mission of James Clemens High School to educate & develop students to their fullest potential. Students have diverse learning styles, therefore, varied teaching strategies are implemented and lifelong learning is promoted. This program provides opportunities for students to enhance their knowledge of health careers and techniques. Students must meet the learning outcomes listed below and demonstrate understanding of the underlying concepts.

## **II. Course Objectives:**

Upon completion of this course the student will be able to:

1. Give an overview of health science and how it relates to their career goals.
2. Utilize effective communication and leadership skills and identify characteristics of a healthcare professional.
3. Identify strong work ethics and demonstrate employability skills. Recognize ethical behavior and legal implications in the healthcare setting.
4. Contrast measurements of time, temperature, weight, and height.
5. Demonstrate the ability to compare and convert measurements of traditional units
6. Analyze the interdependence of the body systems as they relate to wellness, disease, disorders, therapies, and rehabilitation.
7. Explain body planes, directional terms, quadrants, and cavities.
8. Employ principles of growth and development in assessing health status.
9. Compare differences in human responses to wellness and illness.
10. Explain medical symbols and abbreviations.
11. Utilize correct spelling and pronunciation of medical terminology.
12. Report observations and findings using accurate medical terminology and following legal guidelines.
13. Demonstrate the principles of proper body mechanics and safety in the laboratory area.
14. Prevent injury through safe work practices and follow health and safety policies and procedures.
15. Demonstrate leadership skills and community service through HOSA.
16. Discuss different healthcare facilities and organizational structure.
17. Identify subjective and objective information related to healthcare.

## **III. Course Goals:**

1. To introduce students to the healthcare system.
2. To assist students in making realistic career decisions.
3. To develop students' leadership skills.
4. To prepare students for acceptance in postsecondary healthcare education programs and /or employment in healthcare positions.

## **IV. Essential Questions:**

1. What are the skills & knowledge needed for success as a healthcare worker in the 21st century?
2. What kinds of rewards and challenges do you expect from a career in healthcare?
3. Why are good communication techniques so important in healthcare?
4. What lifestyle activities support & influence community health?
5. What are the most commonly seen diseases & disorders across the lifespan?
6. What significant historical advances & trends influence current healthcare?
7. How does one's personal health behavior impact family & community health?
8. Is it important for healthcare providers to have an understanding of their own values?

## **V. Classroom Expectations:**

1. Be respectful and polite to everyone.
2. Bring all needed materials to class.

3. Be in your seat, ready to work when the bell rings.
4. Respect the property of others. Pick up after yourself.
5. Do not eat, drink, or chew gum while we are completing a lab or during healthcare simulation.
6. Check our Learning Management System (Schoology) daily and when absent to stay updated with the course and any missed work.
7. Keep up with make-up assignments and communicate and concerns/needs with the teacher concerning the deadlines.
8. Follow the instructions of the instructor at all times.
9. Non-school issued electronics (computers, cell phones, earbuds/air pods, etc..) are to be kept out of sight in your bag/backpack for the entire duration of instruction or as directed by your instructor. You will be informed if we will be using phones for research purposes or for class participation. Cell phones must be on SILENT mode AT ALL TIMES.

## **VI. Classroom**

### **Management**

#### **Plan:**

- Verbal reprimand.
- Conference with student, parent contact.
- Withdrawal of privilege(s), parent contact.
- Other consequences determined to be reasonable and appropriate by the school administration.

#### **Concerning cell phone utilization:**

Please refer to the [MCS Student Code of Conduct](#) for all district policies and procedures. You are responsible for knowing and following the student code of conduct.

#### Concerning laptop utilization:

1. Student laptops should not be hard wired to the network or have print capabilities.
2. Use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers.
3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops.
4. Laptops and other electronic devices will be used at the individual discretion of the teacher.

The academic and behavioral misconduct policy of the school will be followed for this course. The attendance policy of the school will be followed for this course.

\*Instructors and James Clemens High School are not responsible for personal property that may be in a central classroom location due to unapproved student use.

## **VII. Grading**

### **Policy:**

Test/Quiz grades will account for 70% of each 9-week grade, with the remaining 30% determined by homework/daily grades. Grades will be a reflection of mastery of the standards. Class work can be made up and graded for excused absences only. The Final Exam counts for 1/5 of final grade.

#### Grading Scale:

- A 90-100
- B 80-89
- C 70-79
- D 65-69
- F Below 65

Employability grades reflect behavior in classroom and lab, class preparation, appropriate dress and overall professionalism befitting a healthcare worker. Students will begin with 2 points per day, and this will total a 100 point test grade. This will also be used for documentation purposes for teacher recommendations when selected Health Science Internship Applicants.

**Late Work Policy:** Five points per day (including weekends and holidays) will be deducted from assignments submitted after the due date for all unexcused absences. No late work will be accepted after the scheduled unit test for unexcused absences. The school policy in the student handbook will be followed for excused absences.

## **VIII. Make-up Test Policy:**

All make-up tests will be given by appointment at student's initiative during Refuel time. No make-up tests will be administered during class time. This policy is for major tests, not quizzes or daily work. The academic assistant principal must approve exceptions to this policy.

## **IX. Text and Other Required Reading:**

*Simmers, L. M., Simmers-Nartker, K. M., Simmers-Kobelak, S., & Fuller, J. (2021). DHO Health Science (9th ed.). Cengage Learning. ISBN 978-0357419991*

*Badasch, S. A., & Chesebro, D. S. (2008). Health Science Fundamentals: Exploring Career Pathways. Pearson Education. ISBN 978-0135043721*

*Vaughn, D (2004). Medical Terminology 350 (2nd edition). Westwood, MA: Delmar Cengage Learning.*

**Embedded Literacy:** Students will be expected to read, comprehend, and apply complex medical material related to course content standards and Learning Targets.

**Embedded Math:** Students will be expected to comprehend and apply complex medical math concepts related to course content standards and Learning Targets.

**Embedded Science:** Students will be expected to read, comprehend, and apply complex science concepts related to course content standards and Learning Targets.

## **X. Materials and Supplies Needed:**

Notebook or notebook paper, black ink pens, and # 2 pencils for student use. Please consider sending one of the following with your student in the first month of the semester: One roll of paper towels, one bottle of hand soap, one box of Kleenex, or one container of Clorox wipes.

**XI. Culminating Product/  
Career Readiness Indicator/  
Available Industry Credential**

Upon completion of this course, students earn the American Heart Association's CPR certification and are prepared for further study in an array of health-related fields at the post-secondary level. Students who qualify for Health Science Internship will gain skills and knowledge required to test for the National Healthcare Association (NHA) Certified Patient Care Technician Examination upon completion of clinical rotations (in which the required skills checklist for this certification is completed) at the end of the Fall or Spring Internship Course.

**18 – WEEK PLAN\***

<b>Week 1</b>	<b>Safety in Healthcare</b>
<b>Week 2</b>	<b>CDC Guidelines, PPE, Hand Hygiene</b>
<b>Week 3</b>	<b>History of Healthcare</b>
<b>Week 4</b>	<b>Healthcare Facilities &amp; Government Agencies</b>
<b>Week 5</b>	<b>Patient Access and Payment Systems</b>
<b>Week 6</b>	<b>Healthcare Career Exploration</b>
<b>Week 7</b>	<b>Employability</b>
<b>Week 8</b>	<b>Legal and Ethical Considerations in Healthcare</b>
<b>Week 9</b>	<b>Body Organization and Composition</b>
<b>Week 10</b>	<b>Major Body Systems Part 1</b>
<b>Week 11</b>	<b>Major Body Systems Part 2</b>
<b>Week 12</b>	<b>Entry Level Technical Skills</b>
<b>Week 13</b>	<b>First Aid and Emergency Preparedness</b>
<b>Week 14</b>	<b>American Heart Association Basic Life Support Part 1</b>
<b>Week 15</b>	<b>American Heart Association Basic Life Support Part 2</b>
<b>Week 16</b>	<b>Medical Math</b>
<b>Week 17</b>	<b>Health Promotion and Wellness</b>
<b>Week 18</b>	<b>Semester Review and Final Exams</b>

*\* The syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions, or substitutions. Adequate notice will be provided to students of any necessary changes.*

## **Regarding Health Science Internship**

Health Science Internship is a senior level course and requires an application process. In order to be accepted into the Health Science Internship Course, students must be recommended by instructors & complete the following requirements:

- Earn an overall grade of 85% in Foundations of Health Science (Although recently, students accepted have had an overall grade of >87%).
- Successfully complete CPR requirements of the American Heart Association's (AHA) Healthcare Provider (HCP) with an 84% the first time the written test is taken.
- Achieve an overall grade of 85% in Honor's Human Anatomy & Physiology.
- Correctly and accurately perform the following skills: Application and Removal of PPE, CPR on Infant and Adult, Vital Signs.
- Written test scores will specifically be analyzed for Infection Control and Safety, CPR Written Test, and Vital Signs.
- Excellent teacher recommendations from Foundations of Health Science teacher, Honor's Human Body Structures and Functions teacher, and a teacher of your choice.
- Demonstrate great work ethic, excellent school attendance, professionalism, respectfulness, self-discipline, self-motivation, etc. at ALL times.
- Demonstrates ALL James Clemens High School Core Values in everyday life (Jets are Resourceful, Respectful, and Responsible! Are you TEAM JET? ATTITUDE IS EVERYTHING!)