**HEALTH SCIENCE SYLLABUS**

**Course Description**: This class provides the beginning student with the basic knowledge and skills required for a variety of health occupations. It is the foundational course in Biotechnology Research, Diagnostic Services, Therapeutic Nursing Services, Emergency Services, Therapeutic Clinical Services, Medical Administrative Services, and Public Health programs of study. We will review and follow the curriculum, as outlined by the State, over the course of the semester.

**Rules**

1. Respect. I will respect you as a student, and I want you to respect me as a teacher and a leader in the classroom.
2. I do allow food and drink in my classroom. However, remember that this is a privilege. Please pick up your trash and tidy up your area before you leave.
3. Be nice and be safe. Rules regarding safety will be discussed thoroughly with the students!
4. Finally, have fun and learn!!

**\*\*Due to state standard requirements for this course, there will be times when sensitive and graphic materials, such as childbirth, STD’S, reproduction, birth control, addictions, etc., will be discussed and viewed. The STD power point presentation contains very graphic material but is in compliance with new state laws governing the presentation of this information. I also allow students to view movies related to the topics of study. Please, I invite you to contact me if you have any concerns about your child viewing any of this material. \*\***

**Grades**

Grades are compiled from assignments, tests, and participation. All work is to be turned in on the due date, unless there is an excused absence. It is your responsibility to get your make up work and submit it within the allotted time (per handbook policy). If not received within that time period, you will receive a zero.

Assignments: 35%

Tests: 45%

Participation: 20%

**Class Requirements**

**A $5.00 class fee will be required to purchase the following supplies for the students:**

Materials required include:

1. Project/craft supplies
2. Fruits and vegetables for lab
3. Kleenex, hand sanitizer, coffee/ hot chocolate supplies

**Contact Information**

If you need to contact me about anything, please contact me by phone at (931) 967-2821, teacher website, and/or email at rita.sliger@fcstn.net. Please visit <http://www.fcstn.net> to access Skyward for grades, teacher website, and policy handbook.

**Field Trips­**

HOSA/Health Science classes participate in several field trips during the year. These include **HOSA Day** at Huntsville College of Nursing, **The Bodies Exhibit** in Atlanta, Georgia**,** and **Predators HOSA Leadership Night in Nashville.** Days and times of trips vary.

**Instructional Materials**

Recently purchased high tech equipment will be used for class instruction – Simulator, V/S monitor, EKG Machine, Ultrasound Doppler, Quizbowl, 80 in. Interactive TV, LCD Projector, Elmo. Please see below lesson plan/outline.

**LESSON PLAN OUTLINE**

**LESSON 1**

STANDARDS: MEET AND GREET/CLASS START UP / INTRODUCTION TO HOSA/TERMINOLOGY

 (TERMINOLOGY CONTINUED THROUGHOUT SEMESTER)

SUBJECT: INTRODUCTION INTO CLASS MATERIAL AND HOSA FUNDAMENTALS

WEEK: 1

MONTH: AUGUST

SYNOPSIS: STUDENTS WILL BE INTRODUCED TO THE COURSE MATERIALS AND EACH OTHER. WE WILL SURVEY HOSA FUNDAMENTALS AND BASIC TERMINOLOGY, WHICH WILL BE EXPOUNDED UPON THROUGHOUT THE SEMESTER. THE SYLLABUS WILL BE REVIEWED WITH STUDENTS.

**LESSON 2**

STANDARDS: CAREER PLANNING (HEALTHCARE CAREERS/ PROFESSIONALISM/ ETHICS)

 STANDARDS 2, 3

SUBJECT: HEALTHCARE CAREERS, PROFESSIONALISM, LEGAL AND ETHICS

WEEK: 2 AND 3

MONTH: AUGUST

SYNOPSIS: STUDENTS WILL PREPARE A PAPER OVER A CHOSEN HEALTHCARE CAREER AND PRESENT TO CLASS. STUDENTS WILL SUMMARIZE PROFESSIONAL TRAITS REQUIRED OF HEALTHCARE EMPLOYEES, SUCH AS LEADERSHIP, AND LEGAL AND ETHICAL ISSUES.

**LESSON 3**

STANDARDS: CAREER PLANNING (HISTORY OF HEALTHCARE), FOUNDATIONAL HEALTHCARE SKILLS (ALTERNATIVE MEDICINE), HEALTHCARE SYSTEMS (INNOVATIONS IN HEALTHCARE)

 STANDARDS 1,7,15

SUBJECT: HISTORY OF HEALTHCARE, ALTERNATVE MEDICINE, INNOVATIONS IN HEALTHCARE

WEEK: 3 & 4

MONTH: AUGUST

SYNOPSIS: STUDENTS WILL CREATE A REPORT OR PRESENTATION ON THE HISTORY OF HEALTHCARE, ALTERNATIVE MEDICINE, AND INOVATIONS IN HEALTH.

**LESSON 4**

STANDARDS: MEDICAL MICROBIOLOGY (INFECTION CONTROL), FOUNDATIONAL HEALTH CARE SKILLS (LAB), HEALTH, WELLNESS, (STD’S)

 STANDARDS 12, 13

SUBJECT: INFECTION CONTROL

WEEK: 5 AND 6

MONTH: SEPTEMBER

SYNOPSIS: STUDENTS WILL BEGIN THE STUDY OF INFECTION CONTROL AND HOW TO BREAK CHAIN OF INFECTION. STUDENTS WILL LEARN ABOUT BACTERIA, VIRUSES, SANITATION TECHNIQUES, & STANDARD PRECAUTIONS.

**LESSON 5**

STANDARDS: MEDICAL MICROBIOLOGY (INFECTION CONTROL, PPE), FOUNDATIONAL HEALTH CARE SKILLS (LAB) CARE SKILLS (LAB)

 STANDARDS 13, 14, 18

SUBJECT: INFECTION CONTROL

WEEK: 6 AD 7

MONTH: SEPTEMBER

SYNOPSIS: STUDENTS WILL UNDERSTAND AND PERFORM THE SKILLS OF HANDWASHING AND DONNING/ DOFFING PPE TO PREVENT INFECTION

**LESSON 6**

STANDARDS: BODY STRUCTURE AND FUNCTION (ANATOMY) (MASLOW’S HIERARCHY/LIFE CYCLE), FOUNDATIONAL HEALTHCARE SKILLS (DENTAL AND MEDICAL LAB ASSISTING/ EXTRACTION OF DNA), EMERGENCY MEDICINE (CPR), VISION SCREENINGS, VITAL SIGNS, & CULTURES.

 STANDARDS 8, 9, 10, 11, 12, 16, 17, 19, 22

SUBJECT: ANATOMY, DENTAL ASSISTING, DNA, CPR, MASLOWS HIERARCHY, LIFE CYCLE, VISION CHECKS, CPR, VITAL SIGNS

WEEK: 7, 8, 9, 10, & 11

MONTH: SEPTEMBER/OCTOBER/NOVEMBER

SYNOPSIS: STUDENTS WILL LEARN BASIC CONCEPTS OF BODY SYSTEMS. STUDENTS WILL LEARN HOW MASLOWS HIEARCHY EFFECTS BEHAVIOR, AND THEY WILL BE INTRODUCED TO VARIOUS STAGES OF THE LIFE CYCLE, STUDENTS WILL BE REQUIRED TO PERFORM SKILLS, SUCH AS, EXTRACTING DNA FROM A GREEN PEA, CPR, VITAL SIGNS, VISION SCREENINGS, AND OBTAINING AND CULTURING BACTERIA.

**LESSON 7**

STANDARDS: EMERGENCY MEDICINE (FIRST AID) PHYSICAL THERAPY SKILLS, ATHLETIC TRAINING SKILLS, AND, BODY STRUCTURE AND FUNCTION. (HEALTH/WELLNESS/NUTRITION)

 STANDARDS 16, 20, 21, 11, 12

SUBJECT: FIRST AID, PHYSICAL THERAPY, ATHLETIC TRAINING, AND WELLNESS

WEEK: 12 & 13

MONTH: NOVEMBER/DECEMBER

SYNOPSIS: STUDENTS WILL IDENTIFY BEHAVIORS THAT PROMOTE HEALTH/WELLNESS, SUCH AS DIETS AND AVOIDING PERFORMANCE ENHANCING DRUGS. STUDENTS WILL UNDERSTAND AND PERFORM SKILLS RELATED TO EMERGENCY MEDICINE, PHYSICAL THERAPY, AND ATHLETIC TRAINING.

**LESSON 8**

STANDARDS: HEALTHCARE PROCEDURES IN THE U.S. VS OTHER COUNTRIES, AND METHODS OF PAYMENT

 STANDARDS, 4, 5, 6

SUBJECT: RESEARCH PAPER – COSTS OF HEALTHCARE PROCEDURES IN THE US COMPARED TO OTHER COUNTRIES, METHODS OF HEALTHCARE PAYMENTS (INSURANCES), AND EFFICIENCY OF HEALTHCARE IN THE US COMPARED TO OTHER COUNTRIES.

WEEK: 14

MONTH: DECEMBER

SYNOPSIS: STUDENTS WILL WRITE A RESEARCH PAPER OVER THREE SUBJECTS - COSTS OF HEALTHCARE PROCEDURES IN THE US COMPARED TO OTHER COUNTRIES, METHODS OF HEALTHCARE PAYMENTS (INSURANCES), AND EFFICIENCY OF HEALTHCARE IN THE US COMPARED TO OTHER COUNTRIE.S

**LESSON 9**

STANDARDS: FINALS

SUBJECT: ALL HEALTH SCIENCE STANDARDS

WEEK: LAST WEEK OF SEMESTER

MONTH: DECEMBER

SYNOPSIS: STUDENTS WHO ARE NOT EXEMPT WILL TAKE A FINAL OVER ALL STANDARDS COVERED DURING THE SEMESTER.