

**Florida Department of Education
Curriculum Framework**

Course Title: Orientation to Health Science Professions
Course Type: Orientation/Exploratory
Career Cluster: Health Science

Secondary – Middle School

Course Number	8400110
CIP Number	03179999OR
Grade Level	6-8
Course Length	Semester
Teacher Certification	Refer to the Course Structure section.
CTSO	HOSA
CTE Program Resources	http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/program-resources.stml

Purpose

The purpose of this course is to assist students in making informed decisions regarding their future academic and occupational goals and to provide information regarding careers in the Health Science career cluster. The content includes but is not limited to basic information about the kinds of jobs and workers involved the various career paths, financial rewards, occupational hazards, and educational requirements. Information concerning the practices for promoting good health is included.

Instruction and learning activities are provided in a laboratory setting using hands-on experiences with the equipment, materials and technology appropriate to the course content and in accordance with current practices.

Additional Information relevant to this Career and Technical Education (CTE) program is provided at the end of this document.

Course Structure

This program is a planned sequence of instruction consisting of 1 course.

The length of this course is one semester. It may be offered for two semesters when appropriate. When offered for one semester, it is recommended that it be at the exploratory level and more in-depth when offered for two semesters.

To teach the course listed below, instructors must hold at least one of the teacher certifications indicated for that course.

The following table illustrates the course structure:

Course Number	Course Title	Teacher Certification	Length
8400110	Orientation to Health Science Professions	ANY HEALTH OCCUP G * (See DOE approved list) HEALTH 6	Semester

Standards

After successfully completing this program, the student will be able to perform the following:

- 01.0 Recognize progress in health care service.
- 02.0 Demonstrate an awareness of health careers and related employability skills.
- 03.0 Recognize basic communication skills in the healthcare setting.
- 04.0 Perform basic mathematical calculations and demonstrate problem solving skills used by the health care worker.
- 05.0 Demonstrate an understanding of principles of wellness and disease.
- 06.0 Perform basic health care skills.
- 07.0 Demonstrate occupational safety skills related to the employer, employee and the patient in the healthcare setting.

**Florida Department of Education
Student Performance Standards**

Course Title: Orientation to Health Science Professions
Course Number: 8400110
Course Length: Semester

CTE Standards and Benchmarks	
01.0	Recognize progress in health care service. The student will be able to:
01.01	Compare medical progress from ancient times to the present. For example: surgical techniques, anesthesia, treatment and equipment.
01.02	Discuss health care leaders who brought about change and progress from ancient times to the present. For example: Hippocrates, Edward Jenner, Joseph Lister, Alexander Fleming, Marie Curie, and Clara Barton.
01.03	Demonstrate knowledge of how advances in science have impacted beliefs and practices from ancient times to the present.
02.0	Demonstrate an awareness of health careers and related employability skills. The student will be able to:
02.01	Complete a career inventory to match student interest with potential healthcare careers.
02.02	List employability/soft skills and characteristics needed to be successful in the workplace. For Example: punctuality, dependability, and communication skills.
02.03	Identify the characteristics of healthcare professionals.
02.04	Identify several professions in each of the Health Science Career Pathways: Therapeutic Services, Diagnostic Services, Health Informatics, Support Services, Bio-technology Research and Development.
02.05	List the advantages and disadvantages of one occupation in each pathway including the following factors; job description, career pathway/area of interest, and salary range.
03.0	Recognize basic communication skills in the healthcare setting. The student will be able to:
03.01	Demonstrate an understanding of interpersonal communication skills such as active listening, verbal, non-verbal and written language.
03.02	Demonstrate the ability to break medical terms into their word parts.
03.03	Discuss common abbreviations and symbols used in healthcare professions.
03.04	Identify technology used for communication in healthcare professions and proper etiquette for its' use.
04.0	Perform basic mathematical calculations and demonstrate problem solving skills used by the health care worker. The student will be able to:

CTE Standards and Benchmarks	
04.01	Describe the importance of why accurate calculations and effective problem solving skills are required.
04.02	Calculate mathematical problems and measurements related to health care.
04.03	Convert common weights, measure, and volumes to metric as applied in the health care setting.
04.04	Accurately tell time using both standard and international/military time formats.
05.0	Demonstrate an understanding of principles of wellness and disease. The student will be able to:
05.01	Describe how cultural and individual differences relate to wellness and quality of life and how these differences impact health problems of society.
05.02	Demonstrate an understanding of the risk factors that contribute to illness.
05.03	Identify consequences of substance abuse and high risk behaviors.
05.04	Describe strategies for prevention of diseases including health screenings and examinations.
05.05	Explain basic concepts of positive self-image, body and mental wellness and the effect stress has on both.
05.06	Explore the need for proper nutrition and water intake to maintain wellness.
06.0	Perform basic health care skills. The student will be able to:
06.01	Measure and record (graph) height and weight.
06.02	Measure and record temperature, pulse, and respiration (TPR).
06.03	Demonstrate medical aseptic technique by using proper hand washing skills.
06.04	Demonstrate hands-only CPR.
07.0	Demonstrate occupational safety skills related to the employer, employee and the patient in the healthcare setting. The student will be able to:
07.01	Recognize safety concerns related to the practice of health care.
07.02	Demonstrate an understanding for the importance of fire safety practices including prevention, evacuation plans (R.A.C.E.) and the use of a fire extinguisher (P.A.S.S.).
07.03	Demonstrate safety habits that will prevent injury to health care workers, co-workers, and patients including proper use personal protective equipment (PPE) and infection control practices.

Additional Information

Laboratory Activities

Laboratory investigations that include scientific inquiry, research, measurement, problem solving, emerging technologies, tools and equipment, as well as, experimental, quality, and safety procedures are an integral part of this career and technical program/course. Laboratory investigations benefit all students by developing an understanding of the complexity and ambiguity of empirical work, as well as the skills required to manage, operate, calibrate and troubleshoot equipment/tools used to make observations. Students understand measurement error; and have the skills to aggregate, interpret, and present the resulting data. Equipment and supplies should be provided to enhance hands-on experiences for students.

Florida Standards for English Language Development (ELD)

English language learners communicate for social and instructional purposes within the school setting. ELD.K12.ELL.SI.1

English Language Development (ELD) Standards Special Notes:

Teachers are required to provide listening, speaking, reading and writing instruction that allows English language learners (ELL) to communicate for social and instructional purposes within the school setting. For the given level of English language proficiency and with visual, graphic, or interactive support, students will interact with grade level words, expressions, sentences and discourse to process or produce language necessary for academic success. The ELD standard should specify a relevant content area concept or topic of study chosen by curriculum developers and teachers which maximizes an ELL's need for communication and social skills. For additional information on the development and implementation of the ELD standards, please contact the Bureau of Student Achievement through Language Acquisition at SALA@fldoe.org.

Special Notes

The intended progression for the Health Science Middle School courses is Introduction to Health Science Career Pathways (8709350 & 8709360), Orientation to Health Science Professions (8400110) and Exploration of Health Science Professions (8400310 & 8400210). By offering the middle school courses in the intended progression, each course increases in complexity, rigor and skill level as appropriate.

Special projects that are related to occupational clusters are provided, including making dental molds, designing eye glasses, fingerprinting, and role playing activities of daily living as a handicapped individual, developing an emergency evacuation plan for their own home, menu planning, and visualizing x-rays. Team teaching and integration of the curriculum with English, Math and Science is encouraged. Guest speakers from industry make an important contribution to the effectiveness of this course.

Career and Technical Student Organization (CTSO)

CTSOs are co-curricular career and technical student organizations providing leadership training and reinforcing specific career and technical skills. Career and Technical Student Organizations provide activities for students as an integral part of the instruction offered. Other CTOSs not listed in this curriculum framework or recognized by the Florida Department of Education are permissible provided they support student mastery over the standards and benchmarks of this curriculum framework.

Accommodations

Federal and state legislation requires the provision of accommodations for students with disabilities as identified on the secondary student's Individual Educational Plan (IEP) or 504 plan or postsecondary student's accommodations' plan to meet individual needs and ensure equal access. Accommodations change the way the student is instructed. Students with disabilities may need accommodations in such areas as instructional methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology and special communication systems. Documentation of the accommodations requested and provided should be maintained in a confidential file.

In addition to accommodations, some secondary students with disabilities (students with an IEP served in Exceptional Student Education (ESE)) will need modifications to meet their needs. Modifications change the outcomes or what the student is expected to learn, e.g., modifying the curriculum of a secondary career and technical education course. Note: postsecondary curriculum and regulated secondary programs cannot be modified.