

**Florida Department of Education
CLUSTER CURRICULUM FRAMEWORK**

Cluster Title: Health Science
 Cluster Type: Job Preparatory
 Occupational Area: Health Science Education
 Components: Core, 10 Programs, 10 Completion Points

Secondary

Grade Level: 10-12, 30, 31(The courses Health Science 1 and Health Science 2 are 9-12)
 Facility Code: see program
 VSO: HOSA
 Coop Method: Not First Responder/Nursing Assistant with restriction.
 Apprenticeship: No

- I. **PURPOSE:** The purpose of the programs in this cluster is to prepare students for employment or advanced training in the health occupations industry. The programs in this cluster also provide students the opportunity to be cross-trained in a variety of entry level positions.

This cluster of programs focuses on broad, transferable skills and stresses understanding and demonstration of the following elements of the health care industry; planning, management, finance, technical and production skills, underlying principles of technology, labor issues, community issues and health, safety, and environmental issues.

- II. **CLUSTER STRUCTURE:** This cluster is a planned sequence of instruction consisting of a two credit core and one or more courses leading to an occupational completion point. The two credit core is required as a prerequisite for all programs and options. Secondary students completing the two required courses will not have to repeat the core in post-secondary. When the recommended sequence is followed, the structure allows students to complete at specified points for employment or remain for advanced training or cross-training. A student who completes the applicable competencies at any occupational completion point may either continue with the training program or exit as an occupational completer.

Specific course information regarding licensure and certification guidelines is included with the skill standards portion of the framework. The two required core courses in this career cluster are:

8417100 - Health Science 1 (one credit)
 8417110 - Health Science 2 (one credit)

The optional programs and related courses available in this career cluster are:

8417130 - Allied Health Assisting
 8417100 - Health Science 1 (one credit)
 8417110 - Health Science 2 (one credit)
 8417131 - Allied Health Assisting 3 (one credit)
 8417140 - Dental Aide
 8417100 - Health Science 1 (one credit)
 8417110 - Health Science 2 (one credit)
 8417141 - Dental Aide 3 (one credit)

8417150 - Dental Lab Assisting
8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417151 - Dental Lab Assisting 3 (one credit)
8417152 - Dental Lab Assisting 4 (one credit)

8417160 - Electrocardiograph Aide
8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417161 - Electrocardiograph Aide 3 (one-half credit)

8417170 - First Responder
8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417171 - First Responder 3 (one credit)

8417180 - Health Unit Coordinator
8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417181 - Health Unit Coordinator 3 (one credit)

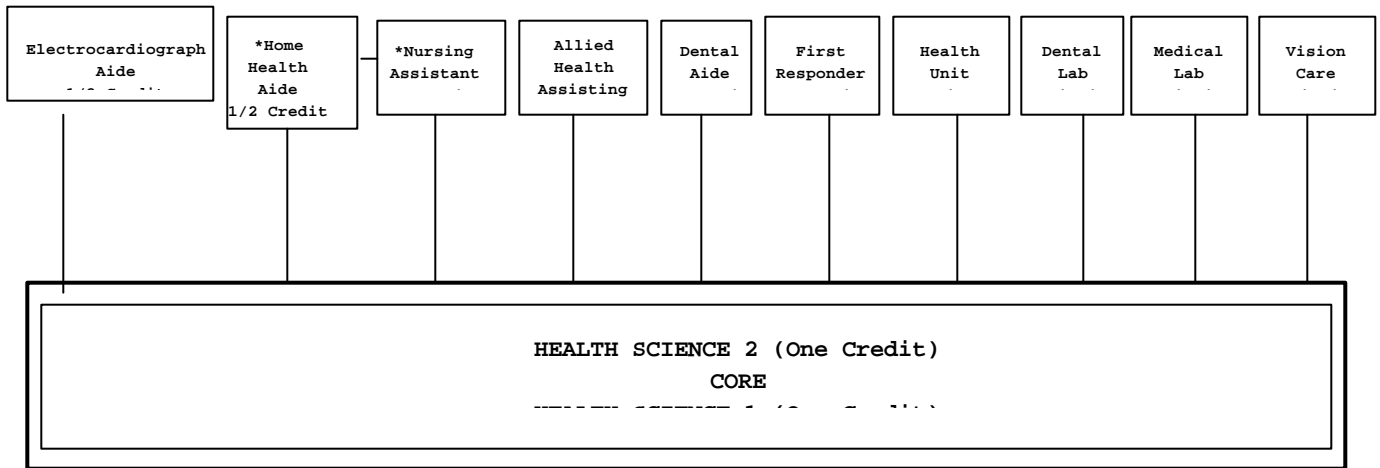
8417190 - Home Health Aide
8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417191 - Home Health Aide 3 (one-half credit)

8417200 - Medical Lab Assisting
8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417201 - Medical Lab Assisting 3 (one credit)
8417202 - Medical Lab Assisting 4 (one credit)

8417210 - Nursing Assistant
8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417211 - Nursing Assistant 3 (one credit)

8417230 - Vision Care Assisting
8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417231 - Vision Care Assisting 3 (one credit)
8417232 - Vision Care Assisting 4 (one credit)

The following diagram illustrates the Health Science Cluster:



*Patient Care Assistant competencies have been completed when both NA and HHA are taken.

III. **LABORATORY ACTIVITIES:** Students will perform skills representative of major areas of health care in the laboratory setting. Team teaching between teachers of science particularly Anatomy and Physiology and Health Occupations instructors is encouraged.

IV. **SPECIAL NOTE:** Health Occupations Students of America, Inc. (HOSA) is the appropriate Career/Technical Student Organization (CTSO) for providing leadership training and for reinforcing specific career/technical skills. CTSOs, when provided, shall be an integral part of the vocational instructional program, and the activities of such organizations are defined as part of the curriculum in accordance with Rule 6A-6.065(8), FAC.

The course Anatomy and Physiology may be substituted for the course Health Science 1.

Cooperative training - OJT is appropriate for this program. Whenever cooperative training - OJT is offered, the following are required for each student: A training plan, signed by the student, teacher, and the employer, which includes instructional objectives and a list of on-the-job and in-school learning experiences; a workstation which reflects equipment, skills and tasks that are relevant to the occupation which the student has chosen as a career goal. The student must receive compensation for work performed.

When a secondary student with a disability is enrolled in a vocational class with modifications to the curriculum framework, the particular outcomes and student performance standards which the student must master to earn credit must be specified in the student's individual educational plan (IEP). Additional credits may be earned when outcomes and standards are mastered in accordance with the requirements indicated in subsequent IEPs. The job title for which the student is being trained must be designated in the IEP.

SCANS Competencies: Instructional strategies for this program must include methods that require students to identify, organize, and use resources appropriately; to work with each other cooperatively and productively; to acquire and use information; to understand social,

organizational, and technological systems; and to work with a variety of tools and equipment. Instructional strategies must also incorporate the methods to improve students' personal qualities and high-order thinking skills.

Equipment List: Generic equipment lists are available for the programs in this cluster and are printed in a supplement to this document.

Health Science students who have achieved at least one occupational completion point may receive one science credit in Anatomy and Physiology in accordance with 236.081(1)(o) F.S.

Students need at least three credits including the 2 pre-requisites (Health Science 1 and 2) and must be a program completer to qualify for Gold Seal Endorsement. Refer to 239.117 F.S. and related rules.

Vision Care 3															X					
Vision Care 4															X					

Florida Department of Education
 INTENDED OUTCOMES

Program Title: Allied Health Assisting

Secondary

Program Numbers 8417130
 CIP Number 0317.029903
 Grade Level 10-12, 30, 31 (The courses Health Science 1 and Health Science 2 are 9-12)
 Standard Length 3 credits
 Certification 8417100 - ANY HEALTH OCCUP ED G
 8417110 - ANY HEALTH OCCUP ED G
 8417131 - ANY HEALTH OCCUP ED G
 Facility Code 253
 Basic Skills N/A
 Math
 Language
 Reading

MAJOR CONCEPTS/CONTENT: The three courses in this program are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)
- 8417131 - Allied Health Assisting 3 (one credit)

The purpose of this program is to prepare a student for employment as an allied health aide Industry Title, medical assistant (66005437) medical laboratory assistant (078.381-010), occupational therapy aide (355.377-010), physical therapy aide (355.354-010), respiratory therapy aide or radiologic aide.

Students will perform skills representative of at least, but not limited to, three areas of allied health care in the laboratory and clinical settings. Major areas of allied health are defined as physical therapy, emergency, radiation, laboratory and respiratory medicine, and occupational therapy. Other areas of health, medicine, dentistry, or veterinary may be included, with instructor provided competencies. **Such teacher made competencies must remain at the aide level and not go beyond the scope of practice of unlicensed assistive personnel. Invasive procedures that fall into the nursing scope of practice are not to be added.** Clinical experience is defined as activities performed in the clinical setting under the supervision of a health professional duly certified/licensed in the selected occupational fields. School certificates for this module must be for "Allied Health Assistant". Specific competencies may be listed on the back.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an

occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)

This program meets the Department of Health and Rehabilitative Services (HRS) HIV/AIDS education requirement as specified in Section 381.0034, Florida Statutes and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements as specified in Section 455.2226, Florida Statutes. Upon completion of this program, the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

INTENDED OUTCOMES: After successfully completing this program the student will be able to:

OCCUPATIONAL COMPLETION POINT - DATA CODE A

ALLIED HEALTH ASSISTANT - Industry Title

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

HEALTH SCIENCE 1 (01.0 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.
- 05.0 Identify and explain factors relating to the transmission of disease.

HEALTH SCIENCE 2 (06.0 - 16.0)

- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.
- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

ALLIED HEALTH ASSISTING 3 (17.0 - 18.0)

- 17.0 Perform skills representative of at least three major allied health areas in the school laboratory before beginning the clinical phase.
- 18.0 Successfully complete a clinical rotation in at least three major allied health areas.

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems. (LA) A1.3
 - 01.02 Identify body cavities and the organs they contain. (LA) A1.3
 - 01.03 Define the chemical processes that maintain life. (S) F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA) A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA) A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue. (S)F1.2
 - 03.04 Define the location and function of tissues. (S)F1
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system. (LA) A1.3
 - 04.03 Identify health careers related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease. (H)B1.2
 - 05.02 List and explain indirect causes of disease. (H)B1.2
 - 05.03 Explain the chain of transmission. (LA)C3.3 (H)B3
 - 05.04 Discuss the immune system. (H)B3 (LA)C3

- 05.05 Define and explain homeostasis. (LA)C3
- 05.06 List and discuss the body's defense mechanisms. (H)C(LA)C3
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases. (S)F2
- 05.09 Identify current issues related to genetic research. (S)F2

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:

- 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
- 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
- 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
- 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
- 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
- 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
- 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1

07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:

- 07.01 Develop basic listening skills. (LA)C1.1
- 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
- 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
- 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
- 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
- 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3
- 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
- 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
- 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6

- 07.10 Demonstrate telephone usage including taking messages.
(LA)C1.1
- 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
- 07.12 Distinguish between factual reports and personal opinion.
(LA)C2.1

- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
 - 08.01 Discuss the legal framework of the health care occupations.
(LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers.
(LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6

- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
 - 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)G2.6, D1.3, 1.4 (SS)A3.5 (LA)A2.1 (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid. (LA)C1.3 (H)A1.5, 1.9

- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:
 - 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.

- 10.06 Demonstrate procedures for the safe transport and transfer of patients. (S)C1&2
- 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1

- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
 - 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action. (H)B3.7, C.5

- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
 - 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation.
 - 12.02 Demonstrate knowledge of surgical asepsis. (H)B1.1,2,3,4,5
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (LA)C3.2

- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
 - 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.02 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1

- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 14.01 Conduct a job search. (M)E1.1, (LA)A1.1,2,3
 - 14.02 Secure information about a job. (LA)A1.1,2,3, B2.4
 - 14.03 Identify documents that may be required when applying for a job. (LA)A1.1,2,3, B1.1, 1.3
 - 14.04 Complete a job application form correctly. (LA)A1.2,3, B1.3
 - 14.05 Demonstrate competence in job interview techniques. (LA)C1,2,3
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons. (H)B3.4,5, C2.1
 - 14.07 Identify acceptable work habits. (LA)B2.2,4
 - 14.08 Demonstrate knowledge of how to make job changes appropriately. (LA)B2.2,4
 - 14.09 Demonstrate desirable health habits. (H)A1.3,4,5, A2.1,6, B1.1,2,5
 - 14.10 Recognize appropriate affective/professional behavior. (H)A2.6
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3, B2.2,4

15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:

- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (LA)A2.7
- 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
- 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (LA)A2.6, (H)B3.7, C1.1
- 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (H)B3.7
- 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (H)B1.2

16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:

- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
- 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
- 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
- 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
- 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
- 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3
- 16.07 Organize and communicate the results obtained by observation and experimentation. (H)1, (LA)B2.4
- 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2 (LA)B2.2
- 16.09 Calculate ratios. (LA) B1.3 (M) A1,2,3

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417131
Course Title: Allied Health Assisting 3
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

17.0 PERFORM SKILLS REPRESENTATIVE OF AT LEAST THREE MAJOR ALLIED HEALTH AREAS IN THE SCHOOL LABORATORY BEFORE BEGINNING THE CLINICAL PHASE--The student will be able to:

- 17.01 Perform skills related to the body systems. (S)F1.2,4
- 17.02 If unlicensed clinical laboratory type skills is one of the selected allied health areas to be taught, students will:
 - 17.02.01 Correctly pipet using automatic and manual pipette. Note: OSHA prohibits mouth pipetting! (S)H1; (LA)1.1,2
 - 17.02.02 Perform dip stick testing on blood and urine.
 - 17.02.03 Type blood samples. (S)H1
 - 17.02.04 Prepare blood slides for differential blood count. (S)H1
 - 17.02.05 Stain blood slides. (S)H1
 - 17.02.06 Plate microbiological specimen on appropriate media. (S)H1
 - 17.02.07 Report urine specific gravity, color and characteristics.
 - 17.02.08 Perform centrifuge operation and maintenance. (S)H1
 - 17.02.09 Focus a microscope and examine specimens using low, high-dry, and oil immersion lens. (S)H1.1
 - 17.02.10 Demonstrate knowledge of specimen differentiation and procedure interference's. (S)H1
 - 17.02.11 Perform communication skills specifically related to laboratory science. (LA)C3.2
 - 17.02.12 Using an artificial arm, perform venipunctures.
 - 17.02.13 Name and discuss the avenues of laboratory medicine practice.
- 17.03 If unlicensed physical restorative type skills is one of the selected allied health areas to be taught, students will:
 - 17.03.01 Describe the functions of bones and muscles as related to the practice of physical therapy. (S)F1.2
 - 17.03.02 Define disability and identify types of disabilities. (LA)B2.2
 - 17.03.03 Name and discuss the avenues of physical therapy practice. (LA) C3
 - 17.03.04 Describe equipment used in physical therapy. (LA) C3
 - 17.03.05 Teach crutch and walker use and care. (S)C1.1

- 17.03.06 Perform safe body mechanics and transfer S)C1.1;F1.2
- 17.03.07 Describe the use of modalities (i.e. Ultrasound)
- 17.03.08 Perform hydrotherapy.
- 17.03.09 Perform communication skills specifically related to physical therapy. (LA)C3.2 (H) B3
- 17.03.10 Assist clients to eat using prompting)A1.9
- 17.03.11 Identify, describe, and demonstrate the use of devices. (LA) A1(3)
- 17.03.12 Identify augmented communication devices and purpose of each.(LA)A1.1,2,3
- 17.03.13 Demonstrate techniques used in active and passive range of motion exercises. (S)C2.1
- 17.03.14 Instruct patients in bed/wheelchair mobility S)C2.1
- 17.03.15 Describe the relationship between long-term and short-term goals.(LA) A1(3)
- 17.04 If unlicensed occupational restorative type skills is one of the selected allied health areas to be taught, students will:
 - 17.04.01 Describe equipment used in occupational therapy.(LA) A1(3)
 - 17.04.02 Make splints.(LA)A1.1,2,3
 - 17.04.03 Perform feeding and dressing skills using adaptive equipment.
 - 17.04.04 Perform feeding and dressing skills using one hand.
 - 17.04.05 Perform communication skills specifically related to occupational therapy. (LA)C3.2
 - 17.04.06 Perform and instruct range and motion exercises. (S)C2.1
 - 17.04.07 Name and discuss the avenues of physical therapy practice.(LA) C3.2 (H) B3
 - 17.04.08 Train the client in clothing care skills.
 - 17.04.09 Train the client in food preparation skills.(H)A1.9;C1.6
 - 17.04.10 Train the client in money management skills.
- 17.05 If unlicensed respiratory restorative type skills is one of the selected allied health areas to be taught, students will:
 - 17.05.01 Name and discuss the avenues of Respiratory Care Practice.
 - 17.05.02 Describe common respiratory diseases (asthma, emphysema, chronic bronchitis, atelectasis) and common medications used to treat respiratory diseases.
 - 17.05.03 Recognize normal breath sounds when auscultating the chest with a stethoscope.
 - 17.05.04 Assemble and practice using gas reducing and flow regulating equipment
 - 17.05.05 Demonstrate and discuss the use of incentive spirometers.(LA) A1(3)

- 17.05.06 Differentiate between various oxygen delivery devices (nasal cannulas, simple and re-breathing masks, oxyhoods, enclosures.
- 17.05.07 Stock shelves with, process, and perform preventative maintenance on respiratory care equipment.
- 17.05.08 Check emergency equipment assigned to respiratory care.
- 17.05.09 Demonstrate/discuss the use of postural drainage and percussion. (LA) A1(3)
- 17.05.10 Discuss and practice the use of the pulse oxymeter. (LA) A1(3)
- 17.05.11 Describe the equipment and use of humidity/aerosol. (LA) A1(#)
- 17.06 If medical record keeping type skills is one of the selected allied health areas to be taught, students will:
 - 17.06.01 Demonstrate an understanding of basic medical terminology e.g. prefixes, suffixes and root words related to major body systems. (LA)A1.1
 - 17.06.02 Demonstrate an understanding of straight numerical, alphabetical and terminal digit filing. (M)A2.2
 - 17.06.03 Demonstrate computer literacy, keyboarding and retrieval skills. (LA) B2(4)
- 17.07 If unlicensed Radiologic type skills is one of the selected allied health areas to be taught, students will:
 - 17.07.01 Identify the function of a cassette, film, and screen.
 - 17.07.02 Describe how radiation produces an image on film. (S)A2 (LA) A1(3)
 - 17.07.03 Identify the process by which x-ray film is developed.
 - 17.07.04 Process a film through an automatic processor.
 - 17.07.05 Identify anatomical position and terminology medial, lateral, superior, inferior, anterior/ventral, and posterior/dorsal).
 - 17.07.06 Identify patient properly (check identification band, etc.)
 - 17.07.07 Explain appropriate exam(s) to the patient.
 - 17.07.08 Perform safe body mechanics and transferring skills of patient onto x-ray table.
 - 17.07.09 Position patient for exam(s) (chest, KUB, hand and foot).
 - 17.07.10 Position x-ray tube to simulate exposure for exam(s) (chest, KUB, hand and foot).
 - 17.07.11 Position patient in supine, prone, lateral, oblique, AP, PA of appropriate part.
 - 17.07.12 Use an artificial arm to perform venipuncture.
- 17.08 If unlicensed veterinary type skills is one of the selected allied health areas to be taught, students will:
 - 17,08.01 Discuss ethical considerations related to animal care and use
 - 17.08.02 Describe Science within the animal care industry. (S)F1.1-8

- 17.08.03 Identify common domestic animal species and breeds.
- 17.08.04 Apply academic skills to animal care situations terminology, veterinary medical dosages.
- 17.08.05 Describe basic concepts of animal nutrition.
(H)A1.5,1.9
- 17.08.06 Provide appropriate general care to a variety of common companion animal species.
- 17.08.07 Safely handle, restrain, confine, and examine companion animals,
- 17.08.08 Demonstrate proper grooming techniques for animals.
- 17.08.09 Socialize young animals and basic obedience train dogs.
- 17.08.10 Describe and demonstrate procedures for identifying, preventing, and controlling diseases of companion animals and zoonotic diseases.
- 17.08.11 Demonstrate basic knowledge of laboratory procedures used in veterinary practice.
- 17.08.12 Assist with veterinary nursing procedures.
- 17.08.13 Demonstrate knowledge of veterinary office procedures.

18.0 SUCCESSFULLY COMPLETE A CLINICAL ROTATION IN AT LEAST 3 MAJOR ALLIED HEALTH AREAS--The student will be able to:

- 18.01 Demonstrate skills in the clinical setting as outlined in 17.0.
- 18.02 Complete three (3) clinical rotations under the supervision of a duly licensed/certified allied health care worker.
- 18.03 Exhibit behavior consistent with the professional ethics required of each of the allied health areas being studied.

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Florida Department of Education
INTENDED OUTCOMES

Program Title: Dental Aide

Secondary

Program Numbers 8417140
CIP Number 0317.010103
Grade Level 10-12, 30, 31 (The courses Health Science 1 and Health Science 2 are 9-12)
Standard Length 3 credits
Certification 8417100 - ANY HEALTH OCCUP ED G
8417110 - ANY HEALTH OCCUP ED G
8417141 - DENTAL HYG @5
DENTAL ASST @7 G
DENTAL TEC \$7 \$G
Facility Code 252
Basic Skills: N/A
Math
Language
Reading

MAJOR CONCEPTS/CONTENT: The three courses in this program are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)
- 8417141 - Dental Aide 3 (one credit)

This program is designed to provide classroom theory and practical application in assisting dentists with actual dental procedures in the care of a patient. It is designed to prepare students for employment as or dental aides (Industry Title) in a dental office or clinic, or to pursue advanced dental Science. Clinical learning experiences are required and must correlate with didactic and laboratory experiences.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)

This program meets the Department of Health and Rehabilitative Services (HRS) HIV/AIDS education requirement as specified in Section 381.0034, Florida Statutes and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements as specified in Section 455.2226, Florida Statutes. Upon completion of this program,

the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

INTENDED OUTCOMES: *OCCUPATIONAL COMPLETION POINT - DATA CODE A*
(01.0 - 26.0) DENTAL AIDE - Industry Title

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

HEALTH SCIENCE 1 (010 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.
- 05.0 Identify and explain factors relating to the transmission of disease.

HEALTH SCIENCE 2 (06.0 -16.0)

- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.
- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

DENTAL AIDE 3 (16.0 - 26.0)

- 17.0 Use dental terminology.
- 18.0 Identify structures and explain functions and pathologies of dental anatomy.
- 19.0 Identify disease prevention and perform infection control procedures.
- 20.0 Describe the legal and ethical responsibilities of the dental health care worker.
- 21.0 Identify, describe, and maintain dental instruments and equipment.
- 22.0 Identify properties, uses and manipulation of dental materials which include gypsum, restorative material, acrylics, dental cements, impression materials and waxes.
- 23.0 Perform basic dental laboratory procedures.

24.0 Perform basic assisting.

25.0 Identify specialty procedures.

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems. (LA) A1.3
 - 01.02 Identify body cavities and the organs they contain. (LA) A1.3
 - 01.03 Define the chemical processes that maintain life. (S) F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA) A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA) A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue. (S)F1.2
 - 03.04 Define the location and function of tissues. (S)F1
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system. (LA) A1.3
 - 04.03 Identify health careers related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease. (H)B1.2
 - 05.02 List and explain indirect causes of disease. (H)B1.2
 - 05.03 Explain the chain of transmission. (LA)C3.3 (H)B3
 - 05.04 Discuss the immune system. (H)B3 (LA)C3

- 05.05 Define and explain homeostasis. (LA)C3
- 05.06 List and discuss the body's defense mechanisms. (H)C(LA)C3
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases. (S)F2
- 05.10 Identify current issues related to genetic research. (S)F2

**Florida Department of Education
STUDENT PERFORMANCE STANDARDS**

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:

- 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
- 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
- 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
- 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
- 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
- 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
- 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1

07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:

- 07.01 Develop basic listening skills. (LA)C1.1
- 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
- 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
- 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
- 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
- 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3
- 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
- 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
- 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6

- 07.10 Demonstrate telephone usage including taking messages.
(LA)C1.1
- 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
- 07.12 Distinguish between factual reports and personal opinion.
(LA)C2.1

- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
 - 08.01 Discuss the legal framework of the health care occupations.
(LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers.
(LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6

- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
 - 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)G2.6, D1.3, 1.4 (SS)A3.5 (LA)A2.1 (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid. (LA)C1.3 (H)A1.5, 1.9

- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:
 - 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.

- 10.06 Demonstrate procedures for the safe transport and transfer of patients. (S)C1&2
- 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1

- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
 - 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action. (H)B3.7, C.5

- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
 - 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation.
 - 12.02 Demonstrate knowledge of surgical asepsis. (H)B1.1,2,3,4,5
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (LA)C3.2

- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
 - 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.03 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1

- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 14.01 Conduct a job search. (M)E1.1, (LA)A1.1,2,3
 - 14.02 Secure information about a job. (LA)A1.1,2,3, B2.4
 - 14.03 Identify documents that may be required when applying for a job. (LA)A1.1,2,3, B1.1, 1.3
 - 14.04 Complete a job application form correctly. (LA)A1.2,3, B1.3
 - 14.05 Demonstrate competence in job interview techniques. (LA)C1,2,3
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons. (H)B3.4,5, C2.1
 - 14.07 Identify acceptable work habits. (LA)B2.2,4
 - 14.08 Demonstrate knowledge of how to make job changes appropriately. (LA)B2.2,4
 - 14.09 Demonstrate desirable health habits. (H)A1.3,4,5, A2.1,6, B1.1,2,5
 - 14.10 Recognize appropriate affective/professional behavior. (H)A2.6
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3, B2.2,4

15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:

- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (LA)A2.7
- 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
- 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (LA)A2.6, (H)B3.7, C1.1
- 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (H)B3.7
- 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (H)B1.2

16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:

- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
- 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
- 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
- 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
- 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
- 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3
- 16.07 Organize and communicate the results obtained by observation and experimentation. (H)1, (LA)B2.4
- 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2 (LA)B2.2
- 16.09 Calculate ratios. (LA) B1.3 (M) A1,2,3

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Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417141
Course Title: Dental Aide 3
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 17.0 USE DENTAL TERMINOLOGY--The student will be able to:
- 17.01 Identify and define common dental terms. (LA)A1.3
 - 17.02 Prepare records using proper terminology.
- 18.0 IDENTIFY STRUCTURES AND EXPLAIN FUNCTIONS AND PATHOLOGIES OF DENTAL ANATOMY--The student will be able to:
- 18.01 Identify teeth and their landmarks. (S)F1.2
 - 18.02 Describe the histological components of the head, oral cavity, and elements of the teeth and supporting structures.
 - 18.03 Recognize and describe oral pathological conditions. (H)A1(5,6,7)
- 19.0 IDENTIFY DISEASE PREVENTION AND PERFORM INFECTION CONTROL PROCEDURES--The student will be able to:
- 19.01 Differentiate between aseptic and non-aseptic environments. (H)A1.5
 - 19.02 Describe methods of disinfecting and sterilization used in a dental office. (H)A1.5
- 20.0 DESCRIBE THE LEGAL AND ETHICAL RESPONSIBILITIES OF THE DENTAL HEALTH CARE WORKER--The student will be able to:
- 20.01 Define commonly used legal vocabulary relating to dentistry. (LA)A1.3
 - 20.02 Describe legal and ethical consideration/obligations in the dental team-patient relationship. (LA)C1.3
 - 20.03 Explain risk management. (H)A1.8 (H)C(1-6)
- 21.0 IDENTIFY, DESCRIBE, AND MAINTAIN DENTAL INSTRUMENTS AND EQUIPMENT--The student will be able to:
- 21.01 Identify various types, functions, and operations of dental operatory and laboratory equipment. (LA)A1.3
 - 21.02 Identify types and functions of various dental instruments. (LA)A1.3
 - 21.03 Maintain dental operatory equipment, laboratory equipment, and instruments. (S)G1.3
- 22.0 IDENTIFY PROPERTIES, USES AND MANIPULATION OF DENTAL MATERIALS WHICH INCLUDE GYPSUM, RESTORATIVE MATERIAL, ACRYLICS, DENTAL

CEMENTS, IMPRESSION MATERIALS AND WAXES--The student will be able to:

- 22.01 Demonstrate an understanding of the composition of dental materials, their physical properties and chemical properties and the manner in which the properties relate to manipulation. (S)A1.4
- 22.02 Demonstrate the manipulative skills necessary to properly prepare dental materials for use both intraorally and extraorally.
- 22.03 Identify the primary objectives of the Council on Dental Materials and Devices of the American Dental Association.
- 22.04 Identify the two international organizations responsible for establishing standards for dental materials.
- 22.05 Describe the physical conditions in the oral cavity which influence the selection of dental materials. (S)F1.2
- 22.06 Describe the biological characteristics of dental materials which may limit their use in the oral cavity. (S)F1.2
- 22.07 List the three factors which must be considered when selecting dental materials.
- 22.08 Define terms related to dental materials and science. (LA)A1.3

23.0 PERFORM BASIC DENTAL LABORATORY PROCEDURES--The student will be able to:

- 23.01 Identify properties and uses and manipulate gypsum. (LA)A1.3
- 23.02 Identify properties and uses and manipulate impression materials.
- 23.03 Identify properties and uses and manipulate waxes.
- 23.04 Perform dental laboratory procedures to include the fabrication of casts and custom trays.
- 23.05 Perform laboratory infection control. (H)B1.4

24.0 PERFORM BASIC ASSISTING--The student will be able to:

- 24.01 Evacuate and maintain the operating field.
- 24.02 Assemble instruments and assist in general/and specialty dental procedures.
- 24.03 Describe dental office emergencies and their prevention and treatment. (LA)A1.3(H)B1.4

25.0 IDENTIFY SPECIALTY PROCEDURES--The student will be able to:

- 25.01 Identify and describe Oral Maxillofacial surgery. (LA)A1.3
- 25.02 Identify and describe Orthodontics. (LA)A1.3
- 25.03 Identify and describe Periodontics. (LA)A1.3
- 25.04 Identify and describe Prosthodontics. (LA)A1.3
- 25.05 Identify and describe Pedodontics. (LA)A1.3
- 25.06 Identify and describe Endodontics. (LA)A1.3
- 25.07 Identify and describe Public Health Dentistry. (LA)A1.3

26.0 PERFORM GENERAL OFFICE PROCEDURES--The student will be able to:

- 26.01 Maintain appointment control.
- 26.02 Maintain an active recall system.
- 26.03 Prepare and maintain accurate patient records. (LA)B2.3
- 26.04 Prepare and maintain patient financial records and collect fees. (M)A3.3
- 26.05 Prepare and maintain dental office inventory control. (M)A3.3
- 26.06 Demonstrate public relations responsibilities of the secretary/receptionist.
- 26.07 Demonstrate skills on office equipment. (LA)B2.4
- 26.08 Maintain office environment.
- 26.09 Receive and dismiss patients and visitors.

July 2001

Florida Department of Education
INTENDED OUTCOMES

Program Title: Dental Laboratory Assisting

Secondary

Program Numbers 8417150
CIP Number 0317.019902
Grade Level 10-12, 30, 31 (The courses Health Science 1 and Health Science 2 are 9-12)
Standard Length 4 credits
Certification:
8417100 Health Science 1 ANY HEALTH OCCUP ED G
8417110 Health Science 2 ANY HEALTH OCCUP ED G
8417151 Dental Laboratory Assisting 3 DEN LABTEC @7 G
8417152 Dental Laboratory Assisting 4 DEN LABTEC @7 G
Facility Code: 252
Basic Skills N/A
Math
Language
Reading

The four courses in this program are:

8417100 Health Science 1 (one credit)
8417110 Health Science 2 (one credit)
8417151 Dental Laboratory Assisting 3 (one credit)
8417152 Dental Laboratory Assisting 4 (one credit)

MAJOR CONCEPTS/CONTENT: The four courses in this program are:

8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417151 - Dental Laboratory Assisting 3 (one credit)
8417152 - Dental Laboratory Assisting 4 (one credit)

The program is designed to prepare students for employment as dental laboratory technician apprentices (712.381-022) or dental laboratory assistants or to pursue further education in the dental health field. Simulation laboratory experiences are integrated with the didactic portion of this program. Students perform tasks representative of dental laboratory practice.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)

This program meets the Department of Health and HIV/AIDS education requirements and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements. Upon completion of this program, the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

INTENDED OUTCOMES: After successfully completing this program the student will be able to:

OCCUPATIONAL COMPLETION POINT - DATA CODE A

DENTAL LABORATORY ASSISTANT - Industry Title

HEALTH SCIENCE 1 (01.0 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.
- 05.0 Identify and explain factors relating to the transmission of disease.

HEALTH SCIENCE 2 (06.0 - 16.0)

- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.
- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

DENTAL LABORATORY ASSISTING 3 and 4 (17.0 - 21.0)

- 17.0 Demonstrate communication and computational skills used in a dental laboratory.
- 18.0 Identify anatomic structure and function of body systems in relation to dental laboratory science.
- 19.0 Demonstrate computer literacy for dental labs.
- 20.0 Practice selected dental laboratory techniques.
- 21.0 Practice accepted principles of safety in the laboratory setting.

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems. (LA) A1.3
 - 01.02 Identify body cavities and the organs they contain. (LA) A1.3
 - 01.03 Define the chemical processes that maintain life. (S) F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA) A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA) A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue. (S)F1.2
 - 03.04 Define the location and function of tissues. (S)F1
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system. (LA) A1.3
 - 04.03 Identify health careers related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease. (H)B1.2
 - 05.02 List and explain indirect causes of disease. (H)B1.2
 - 05.03 Explain the chain of transmission. (LA)C3.3 (H)B3
 - 05.04 Discuss the immune system. (H)B3 (LA)C3

- 05.05 Define and explain homeostasis. (LA)C3
- 05.06 List and discuss the body's defense mechanisms. (H)C(LA)C3
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases. (S)F2
- 05.11 Identify current issues related to genetic research. (S)F2

**Florida Department of Education
STUDENT PERFORMANCE STANDARDS**

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:

- 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
- 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
- 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
- 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
- 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
- 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
- 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1

07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:

- 07.01 Develop basic listening skills. (LA)C1.1
- 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
- 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
- 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
- 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
- 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3
- 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
- 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
- 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6

- 07.10 Demonstrate telephone usage including taking messages.
(LA)C1.1
- 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
- 07.12 Distinguish between factual reports and personal opinion.
(LA)C2.1

- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
 - 08.01 Discuss the legal framework of the health care occupations.
(LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers.
(LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6

- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
 - 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)G2.6, D1.3, 1.4 (SS)A3.5 (LA)A2.1 (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid. (LA)C1.3 (H)A1.5, 1.9

- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:
 - 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.

- 10.06 Demonstrate procedures for the safe transport and transfer of patients. (S)C1&2
- 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1

- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
 - 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action. (H)B3.7, C.5

- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
 - 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation.
 - 12.02 Demonstrate knowledge of surgical asepsis. (H)B1.1,2,3,4,5
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (LA)C3.2

- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
 - 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.04 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1

- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 14.01 Conduct a job search. (M)E1.1, (LA)A1.1,2,3
 - 14.02 Secure information about a job. (LA)A1.1,2,3, B2.4
 - 14.03 Identify documents that may be required when applying for a job. (LA)A1.1,2,3, B1.1, 1.3
 - 14.04 Complete a job application form correctly. (LA)A1.2,3, B1.3
 - 14.05 Demonstrate competence in job interview techniques. (LA)C1,2,3
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons. (H)B3.4,5, C2.1
 - 14.07 Identify acceptable work habits. (LA)B2.2,4
 - 14.08 Demonstrate knowledge of how to make job changes appropriately. (LA)B2.2,4
 - 14.09 Demonstrate desirable health habits. (H)A1.3,4,5, A2.1,6, B1.1,2,5
 - 14.10 Recognize appropriate affective/professional behavior. (H)A2.6
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3, B2.2,4

15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:

- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (LA)A2.7
- 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
- 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (LA)A2.6, (H)B3.7, C1.1
- 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (H)B3.7
- 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (H)B1.2

16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:

- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
- 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
- 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
- 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
- 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
- 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3
- 16.07 Organize and communicate the results obtained by observation and experimentation. (H)1, (LA)B2.4
- 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2 (LA)B2.2
- 16.09 Calculate ratios. (LA) B1.3 (M) A1,2,3

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417151
Course Title: Dental Laboratory Assisting 3
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 17.0 DEMONSTRATE COMMUNICATION AND COMPUTATIONAL SKILLS USED IN A DENTAL LABORATORY--The student will be able to:
- 17.01 Calculate using appropriate dental laboratory formulae. (M)A3,4
 - 17.02 Use appropriate dental terminology and abbreviations. (LA)A1.3
 - 17.03 Demonstrate the ability to interpret dental prescriptions.
 - 17.04 Demonstrate communication skills specific to the dental laboratory setting. (LA)ABC
- 18.0 IDENTIFY ANATOMIC STRUCTURE AND FUNCTION OF BODY SYSTEMS IN RELATION TO DENTAL LABORATORY SCIENCE--The student will be able to:
- 18.01 Describe the structure and function of head and neck anatomy. (S)F1(1-8)
 - 18.02 Apply understanding of head and neck anatomy in relation to patient use of dental appliances.
- 19.0 DEMONSTRATE COMPUTER LITERACY FOR DENTAL LABS--The student will be able to:
- 19.01 Describe the uses of computers in the health occupation being studied. (LA)B2.4
 - 19.02 Demonstrate computational, keyboarding and retrieval skills relevant to job requirements of the dental laboratory industry. (LA)B2.4
 - 19.03 Demonstrate computer skills in each clinical rotation.
- 20.0 PRACTICE SELECTED DENTAL LABORATORY TECHNIQUES--The student will be able to:
- 20.01 Fabricate selected dental restorations.
 - 20.02 Fabricate selected prostheses.
 - 20.03 Fabricate selected dental appliances.
- 21.0 PRACTICE ACCEPTED PRINCIPLES OF SAFETY IN THE DENTAL LABORATORY SETTING--The student will be able to:
- 21.01 Demonstrate safe use, care and maintenance of equipment and materials. (H)B1

- 21.02 Properly identify and label models, prostheses, etc.
(LA)A1.3
- 21.03 Recognize atypical behavior.
- 21.04 Follow emergency procedures for a dental laboratory. (H)B1
- 21.05 Demonstrate knowledge of sterile technique and disease prevention in the dental lab.

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417152
Course Title: Dental Laboratory Assisting 4
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

This course may be taken concurrently with Dental Laboratory Assisting 3. This course is a continuation of Dental Laboratory Assisting 3 and will allow the student to practice all aspects of Dental Laboratory Assisting.

July 2001

Florida Department of Education
INTENDED OUTCOMES

Program Title: Electrocardiograph Aide

Secondary

Program Numbers 8417160
CIP Number 0317.020302
Grade Level 10-12, 30, 31 (The courses Health Science 1 and Health Science 2 are 9-12)
Standard Length 2.5 credits
Certification:
8417100 Health Science 1 ANY HEALTH OCCUP ED G
8417110 Health Science 2 ANY HEALTH OCCUP ED G
8417161 Electrocardiograph Aide 3 NURSING ED @5
LAB TECH @7 G
EKG @7 G
PRAC NURSE @7 G
LAB ASST @7 G
REG NURSE G
PARAMEDIC @7 G
MED ASST @7 G
TEC X RAY @7 G
RESP THER @7 G
Facility Code: 252
Basic Skills N/A
Math
Language
Reading

MAJOR CONCEPTS/CONTENT: The two and one-half courses in this program are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)
- 8417161 - Electrocardiograph Aide 3 (one-half credit)

The program is designed to prepare students for employment as EKG Aide I (electrocardiograph aides) (32926211). Clinical learning experiences are an integral part of this program.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)

This program meets the Department of Health and HIV/AIDS education requirements and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements. Upon completion of this program, the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

INTENDED OUTCOMES: After successfully completing this program the student will be able to:

OCCUPATIONAL COMPLETION POINT - DATA CODE A

ELECTROCARDIOGRAPH AIDE - Industry Title

HEALTH SCIENCE 1 (01.0 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.

HEALTH SCIENCE 2 (05.0 -16.0)

- 05.0 Identify and explain factors relating to the transmission of disease.
- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.
- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

ELECTROCARDIOGRAPH AIDE 3 (17 - 20)

- 17.0 Describe the cardiovascular system.
- 18.0 Identify legal and ethical responsibilities.
- 19.0 Demonstrate knowledge of, apply and use medical instrumentation modalities.
- 20.0 Perform patient care techniques in the health care facility.

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems. (LA) A1.3
 - 01.02 Identify body cavities and the organs they contain. (LA) A1.3
 - 01.03 Define the chemical processes that maintain life. (S) F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA) A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA) A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue. (S)F1.2
 - 03.04 Define the location and function of tissues. (S)F1
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system. (LA) A1.3
 - 04.03 Identify health careers related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease. (H)B1.2
 - 05.02 List and explain indirect causes of disease. (H)B1.2
 - 05.03 Explain the chain of transmission. (LA)C3.3 (H)B3
 - 05.04 Discuss the immune system. (H)B3 (LA)C3

- 05.05 Define and explain homeostasis. (LA)C3
- 05.06 List and discuss the body's defense mechanisms. (H)C(LA)C3
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases. (S)F2
- 05.12 Identify current issues related to genetic research. (S)F2

**Florida Department of Education
STUDENT PERFORMANCE STANDARDS**

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:
- 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
 - 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
 - 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
 - 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
 - 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
 - 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
 - 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1
- 07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:
- 07.01 Develop basic listening skills. (LA)C1.1
 - 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
 - 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
 - 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
 - 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
 - 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3
 - 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
 - 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
 - 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6

- 07.10 Demonstrate telephone usage including taking messages.
(LA)C1.1
- 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
- 07.12 Distinguish between factual reports and personal opinion.
(LA)C2.1

- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
 - 08.01 Discuss the legal framework of the health care occupations.
(LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers.
(LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6

- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
 - 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)G2.6, D1.3, 1.4 (SS)A3.5 (LA)A2.1 (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid. (LA)C1.3 (H)A1.5, 1.9

- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:
 - 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.

- 10.06 Demonstrate procedures for the safe transport and transfer of patients. (S)C1&2
- 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1

- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
 - 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action. (H)B3.7, C.5

- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
 - 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation.
 - 12.02 Demonstrate knowledge of surgical asepsis. (H)B1.1,2,3,4,5
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (LA)C3.2

- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
 - 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.05 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1

- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 14.01 Conduct a job search. (M)E1.1, (LA)A1.1,2,3
 - 14.02 Secure information about a job. (LA)A1.1,2,3, B2.4
 - 14.03 Identify documents that may be required when applying for a job. (LA)A1.1,2,3, B1.1, 1.3
 - 14.04 Complete a job application form correctly. (LA)A1.2,3, B1.3
 - 14.05 Demonstrate competence in job interview techniques. (LA)C1,2,3
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons. (H)B3.4,5, C2.1
 - 14.07 Identify acceptable work habits. (LA)B2.2,4
 - 14.08 Demonstrate knowledge of how to make job changes appropriately. (LA)B2.2,4
 - 14.09 Demonstrate desirable health habits. (H)A1.3,4,5, A2.1,6, B1.1,2,5
 - 14.10 Recognize appropriate affective/professional behavior. (H)A2.6
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3, B2.2,4

15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:

- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (LA)A2.7
- 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
- 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (LA)A2.6, (H)B3.7, C1.1
- 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (H)B3.7
- 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (H)B1.2

16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:

- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
- 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
- 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
- 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
- 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
- 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3
- 16.07 Organize and communicate the results obtained by observation and experimentation. (H)1, (LA)B2.4
- 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2 (LA)B2.2
- 16.09 Calculate ratios. (LA) B1.3 (M) A1,2,3

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417161
Course Title: Electrocardiograph Aide 3
Course Credit: .5

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 17.0 DESCRIBE THE CARDIOVASCULAR SYSTEM--The student will be able to:
- 17.01 Locate the heart and surrounding structures. (S)F1.2
 - 17.02 Diagram and label the parts of the heart and list the functions of each labeled part. (S)F1.6, F1.1, F1.3
 - 17.03 Trace the flow of blood through the cardiopulmonary system. (S)F1.8 (H)A1.1
- 18.0 IDENTIFY LEGAL AND ETHICAL RESPONSIBILITIES OF AN EKG AIDE--The student will be able to:
- 18.01 Recognize and practice legal and ethical responsibilities as they relate to an EKG aide. (LA)A2.3, A1.2
 - 18.02 Maintain a safe and efficient work environment. (LA)C1.1
 - 18.03 Maintain EKG equipment so it will be safe and accurate. (S)H3.2
- 19.0 DEMONSTRATE KNOWLEDGE OF, APPLY AND USE MEDICAL INSTRUMENTATION MODALITIES--The student will be able to:
- 19.01 Calibrate and standardize the cardiograph instrument. (M)B4.1, B4.2
 - 19.02 Identify three types of lead systems.
 - 19.03 Demonstrate proper lead placement, including lead placement for patients with special needs. (M)C2.2
 - 19.04 Identify artifacts and mechanical problems. (LA)A2.7
 - 19.05 Perform a 12 lead EKG.
 - 19.06 Recognize normal sinus rhythm. (M)A3.3, A4.1, B2.2, B3.1
 - 19.07 Report any rhythm that is not normal sinus rhythm.
 - 19.08 Use documentation skills to identify electrocardiographs. (LA)B1.3, B2.2
 - 19.09 State Einthoven's triangle.
 - 19.10 Recognize a cardiac emergency as seen on the EKG. (M)B1.3, E1.1, E2.2
- 20.0 PERFORM PATIENT CARE TECHNIQUES IN THE HEALTH CARE FACILITY--The student will be able to:
- 20.01 Describe the physical and mental preparation of the patient for cardiovascular testing. (LA)C3.3, C3.2, (LA)D1.1, D1.2, D1.3, (H)B3.1, 3.4, 3.6
 - 20.02 Identify patient and verify the requisition order. (LA)C1.1, (LA)D1.1, D1.2, D1.3, (H)B3.1, 3.4, 3.6

- 20.03 Prepare patient for cardiovascular diagnostic testing.
(LA)C3.1, LA)D1.1, D1.2, D1.3, (H)B3.1, 3.4, 3.6
- 20.04 State precautions required when performing diagnostic
procedures. (LA)C3.3, LA)D1.1, D1.2, D1.3, (H)B3.1, 3.4, 3.6

July 2001

Florida Department of Education
INTENDED OUTCOMES

Program Title: First Responder

Secondary

Program Numbers

8417170

CIP Number

0317.020502

Grade Level

10-12, 30, 31 (The courses Health Science 1 and Health Science 2 are 9-12)

Standard Length

3 credits

Certification:

8417100 Health Science 1	ANY HEALTH OCCUP ED G
8417110 Health Science 2	ANY HEALTH OCCUP ED G
8417171 First Responder 3	PRAC NURSE @7 @G
	REG NURSE G
	PARAMEDIC @7 G
	LAW ENF @7 G
	CORR OFF @7 G
	PUB SERV @7 G
	FIRE FIGHT @7 G

Facility Code:

252

Basic Skills

N/A

Math

Language

Reading

MAJOR CONCEPTS/CONTENT: The three courses in this program are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)
- 8417171 - First Responder 3 (one credit)

This is an instructional program that prepares individuals to provide initial care to sick or injured persons or as ambulance drivers and attendants (66023441). A First Responder may use this training for employment. The First Responder is the first to arrive at the scene of an injury but does not have the primary responsibility for treating and transporting the injured person(s). First Responders may include law enforcement, life guard, fire services or basic life support non-licensed personnel who act as part of an organized emergency medical services team. This program must be approved by the Department of Education utilizing standards jointly developed by the Florida Department of Law Enforcement, Florida Department of Insurance and the Emergency Medical Services Section of the Department of Health and Rehabilitative Services as specified in Section 406.435, F.S.

In accordance with 64E-2, F.A.C. the First Responder instructor shall issue to each student documentation of successful course completion which shall include date of issuance, student's name, name of sponsoring agency (DOE), name of training agency, and instructor's printed name and signature, plus the wording "issued pursuant to section 406.435 F.S."

The instructor must also maintain on file and submit to the DOE (Health Occupations Education, FEC 1224, 325 West Gaines Street, Tallahassee, FL 32399) within 30 days following course completion, a roster listing the names of students who successfully completed the course, the dates and location of the course, and the name of the instructor.

The student performance standards for First Responder were adapted and condensed from U. S. Department of Transportation Emergency Medical Services; First Responder Training Course, National Standard Curriculum Instructors Lesson Plan and American Society for Testing and Materials, Committee F-30. Administrators and instructors should refer to these materials for additional details.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)

This program meets the Department of Health and HIV/AIDS education requirements and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements. Upon completion of this program, the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

When the word demonstrate is used in a standard, it shall require the actual performance and operation be accomplished, unless otherwise indicated. Simulation, explanation, and illustration may be substituted when actual operation is not feasible.

INTENDED OUTCOMES: Students completing this course may articulate to the postsecondary program of Emergency Medical Technician.

OCCUPATIONAL COMPLETION POINT - DATA CODE A

AMBULANCE DRIVER or ATTENDANT - OES Code 66023441

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

HEALTH SCIENCE 1 (01.0 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.

05.0 Identify and explain factors relating to the transmission of disease.

HEALTH SCIENCE 2 (06.0 - 16.0)

- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.
- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

FIRST RESPONDER 3 (17.0 - 37.0)

- 17.0 Demonstrate an understanding of the roles and responsibilities of the first responder.
- 18.0 Demonstrate an understanding of medicolegal aspects.
- 19.0 Determine and record vital signs of a sick or injured person.
- 20.0 Use medical identification devices.
- 21.0 Conduct a primary assessment of problems that are a threat to life if not corrected immediately.
- 22.0 Demonstrate BLS procedures.
- 23.0 Recognize and control bleeding.
- 24.0 Recognize and control shock.
- 25.0 Identify and use mechanical aids to breathing.
- 26.0 Provide secondary assessment.
- 27.0 Identify musculo-skeletal injuries.
- 28.0 Identify the potential for a spinal injury.
- 29.0 Provide emergency evacuation and transfer of a sick and/or injured person.
- 30.0 Identify and provide initial care for a sick and/or injured patient.
- 31.0 Identify and care for patients who are in special situations.
- 32.0 Provide triage to victims of multiple casualty incidents.
- 33.0 Recognize life-threatening situations.
- 34.0 Recognize entrapment situations.
- 35.0 Assist with emergency childbirth.
- 36.0 Identify critical incident stressors.
- 37.0 Communicate patient information to appropriate authorities.

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems. (LA) A1.3
 - 01.02 Identify body cavities and the organs they contain. (LA) A1.3
 - 01.03 Define the chemical processes that maintain life. (S) F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA) A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA) A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue. (S)F1.2
 - 03.04 Define the location and function of tissues. (S)F1
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system. (LA) A1.3
 - 04.03 Identify health careers related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease. (H)B1.2
 - 05.02 List and explain indirect causes of disease. (H)B1.2
 - 05.03 Explain the chain of transmission. (LA)C3.3 (H)B3
 - 05.04 Discuss the immune system. (H)B3 (LA)C3

- 05.05 Define and explain homeostasis. (LA)C3
- 05.06 List and discuss the body's defense mechanisms. (H)C(LA)C3
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases. (S)F2
- 05.13 Identify current issues related to genetic research. (S)F2

**Florida Department of Education
STUDENT PERFORMANCE STANDARDS**

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:
- 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
 - 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
 - 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
 - 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
 - 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
 - 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
 - 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1
- 07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:
- 07.01 Develop basic listening skills. (LA)C1.1
 - 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
 - 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
 - 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
 - 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
 - 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3
 - 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
 - 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
 - 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6

- 07.10 Demonstrate telephone usage including taking messages.
(LA)C1.1
- 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
- 07.12 Distinguish between factual reports and personal opinion.
(LA)C2.1

- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
 - 08.01 Discuss the legal framework of the health care occupations.
(LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers.
(LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6

- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
 - 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)G2.6, D1.3, 1.4 (SS)A3.5 (LA)A2.1 (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid. (LA)C1.3 (H)A1.5, 1.9

- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:
 - 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.

- 10.06 Demonstrate procedures for the safe transport and transfer of patients. (S)C1&2
- 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1

- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
 - 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action. (H)B3.7, C.5

- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
 - 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation.
 - 12.02 Demonstrate knowledge of surgical asepsis. (H)B1.1,2,3,4,5
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (LA)C3.2

- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
 - 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.06 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1

- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 14.01 Conduct a job search. (M)E1.1, (LA)A1.1,2,3
 - 14.02 Secure information about a job. (LA)A1.1,2,3, B2.4
 - 14.03 Identify documents that may be required when applying for a job. (LA)A1.1,2,3, B1.1, 1.3
 - 14.04 Complete a job application form correctly. (LA)A1.2,3, B1.3
 - 14.05 Demonstrate competence in job interview techniques. (LA)C1,2,3
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons. (H)B3.4,5, C2.1
 - 14.07 Identify acceptable work habits. (LA)B2.2,4
 - 14.08 Demonstrate knowledge of how to make job changes appropriately. (LA)B2.2,4
 - 14.09 Demonstrate desirable health habits. (H)A1.3,4,5, A2.1,6, B1.1,2,5
 - 14.10 Recognize appropriate affective/professional behavior. (H)A2.6
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3, B2.2,4

15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:

- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (LA)A2.7
- 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
- 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (LA)A2.6, (H)B3.7, C1.1
- 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (H)B3.7
- 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (H)B1.2

16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:

- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
- 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
- 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
- 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
- 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
- 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3
- 16.07 Organize and communicate the results obtained by observation and experimentation. (H)1, (LA)B2.4
- 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2 (LA)B2.2
- 16.09 Calculate ratios. (LA) B1.3 (M) A1,2,3

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417171
Course Title: First Responder 3
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 17.0 DEMONSTRATE AN UNDERSTANDING OF THE ROLES AND RESPONSIBILITIES OF THE FIRST RESPONDER--The student will be able to:
- 17.01 Describe the role of First Responder as a member of the EMS Team. (LA)A1.2, A1.3, A2.4
 - 17.02 List and describe the responsibilities of the First Responder for the provision of pre-hospital emergency care within the local EMS system. (S)H1.7 (H)B1.5, B3.7, B3.8, B3.4, B3.1, B1.1, B1.2
- 18.0 DEMONSTRATE AN UNDERSTANDING OF MEDICOLEGAL ASPECTS--The student will be able to:
- 18.01 Describe and demonstrate an understanding of the medicolegal aspects of a First Responder's provision of emergency medical care in the jurisdiction having authority, including, but not limited to, duty to act, standard of care, consent to care, forcible restraint, abandonment, documentation and any applicable Good Samaritan Laws. (LA)A1.2
 - 18.02 Practice within medicolegal standards. (SS)C2.3
- 19.0 DETERMINE AND RECORD VITAL SIGNS OF A SICK OR INJURED PERSON--The student will be able to:
- 19.01 Determine and record skin color, temperature & moistness.
 - 19.02 Determine and record the level of consciousness of the injured person.
 - 19.03 Demonstrate ability to accurately measure and record vital signs. (M)A1.1, A2.2, A4.1 B1.3, B2.2, B4.2
- 20.0 USE MEDICAL IDENTIFICATION DEVICES--The student will be able to:
- 20.01 Identify the most commonly used medical identification devices. (LA)A2.7, A2.8
 - 20.02 Apply the information contained on or in the medical identification devices to patient assessment and patient care procedures. (LA)A2.7, A2.8
- 21.0 CONDUCT A PRIMARY ASSESSMENT OF PROBLEMS THAT ARE A THREAT TO LIFE IF NOT CORRECTED IMMEDIATELY--The student will be able to:

- 21.01 Assess for an inadequate airway, inadequate respiration's, inadequate circulation and profuse bleeding. (H)A2.6, (S)C2.6
 - 21.02 Recognize when immediate correction is necessary. (S)H1.3
 - 21.03 Use spinal precautions as appropriate.
- 22.0 DEMONSTRATE BLS PROCEDURES--The student will be able to:
- 22.01 Establish and maintain an open airway.
 - 22.02 Restore breathing and circulation by means of cardiopulmonary resuscitation. (S)H1.5
- 23.0 RECOGNIZE AND CONTROL BLEEDING--The student will be able to:
- 23.01 Identify items that can be used to control external bleeding and minimize the contamination of open wounds.
 - 23.02 Apply pressure dressings that will control bleeding and minimize the contamination of open wounds.
 - 23.03 Control external bleeding by means of direct pressure and elevation. (S)C2.6
 - 23.04 Control external bleeding by means of pressure applied to the pressure points of the main supplying arteries.
 - 23.05 Identify the likelihood of internal bleeding through observations of signs, symptoms and mechanisms of injury. (S)C2.6
 - 23.06 Care for a patient who exhibits the signs and symptoms of internal bleeding.
- 24.0 RECOGNIZE AND CONTROL SHOCK--The student will be able to:
- 24.01 Recognize the likelihood that shock may occur or be present on the basis of patient assessment and observation of a mechanism of injury. (H)A2.6
 - 24.02 Provide anti-shock measures as a part of routine patient care.
- 25.0 IDENTIFY AND USE MECHANICAL AIDS TO BREATHING--The student will be able to:
- 25.01 Use available mechanical devices to assure the maintenance of an open airway. (S)H3.2, H3.6
 - 25.02 Use available mechanical devices to assist ventilation. (S)H3.2, H3.6
 - 25.03 Use available oxygen delivery equipment. (S)H3.2, H3.6
 - 25.04 Use available suction equipment. (S)H3.2, H3.6
- 26.0 PROVIDE SECONDARY ASSESSMENT--The student will be able to:
- 26.01 Conduct a methodical head-to-toe physical examination to discover conditions not found during the primary assessment. (H)A2.6, B3.1, B3.4, B3.7, B3.8
 - 26.02 Interview the sick or injured person to obtain facts relevant to the person's condition. (LA)C1.1, C1.3, C1.4, C3.1, C3.2, C3.3, C3.4, D1.1, D1.2, D1.3

- 26.03 Interview co-workers, witnesses, family members, or other individuals to obtain facts relevant to the person's condition. (LA)C1.1, C1.3, C1.4, C3.1, C3.2, C3.3, C3.4,D1.1, D1.2, D1.3
- 27.0 IDENTIFY MUSCULO-SKELETAL INJURIES--The student will be able to:
- 27.01 Identify the various types of musculo-skeletal injuries.
27.02 Immobilize and otherwise care for suspected fractures, dislocations, sprains and strains with available supplies and equipment, including commercially available and improvised devices.
- 28.0 IDENTIFY THE POTENTIAL FOR A SPINAL INJURY--The student will be able to:
- 28.01 Determine the likelihood of a spinal injury on the basis of the patient assessment and an observation of a mechanism of injury. (S)C1.2, C2.6
28.02 Perform manual spinal stabilization.
28.03 Immobilize a person who has a suspected spinal injury with available equipment.
- 29.0 PROVIDE EMERGENCY EVACUATION AND TRANSFER OF A SICK AND/OR INJURED PERSON--The student will be able to:
- 29.01 Describe situations when a person should be evacuated or transferred.
29.02 Use the most appropriate assist, drag or carry (alone or with a partner) to move a sick or injured person from a dangerous location to a safe place. (M)C2.6
29.03 Maintain safety precautions during evacuation and transfer.
- 30.0 IDENTIFY AND PROVIDE INITIAL CARE FOR A SICK AND/OR INJURED PATIENT--The student will be able to:
- 30.01 Identify and care for patients with non-traumatic chest pain, utilizing patient assessment. (H)A2.6
30.02 Identify and care for patients experiencing respiratory distress, utilizing patient assessment. (H)A2.6
30.03 Identify and care for patients experiencing a diabetic emergency, utilizing patient assessment. (H)A2.6
30.04 Identify and care for a patient who is experiencing a seizure, utilizing patient assessment. (H)A2.6
30.05 Identify and care for a patient who has ingested, inhaled, absorbed or been injected with a poisonous substance. (H)A2.6,(S)F1.7
30.06 Identify and care for a patient who is in an altered state of consciousness, utilizing patient assessment. (H)A2.6, (S)F1.6
30.07 Identify and care for a patient with thermal, chemical, or electrical burns, determining the severity including degree, body surface area, type, and location. (H)A2.6, (M)B3.1

- 30.08 Identify and care for a patient suffering from an environmental emergency including heat cramps, heat exhaustion, heat stroke, and frostbite, utilizing patient assessment. (H)A2.6,(S)F1.7
- 31.0 IDENTIFY AND CARE FOR PATIENTS WHO ARE IN SPECIAL SITUATIONS--The student will be able to:
- 31.01 Identify patients who have special needs. (H)A2.6
 - 31.02 Care for injured/ill children. (H)A2.6,(S)H3.2, H3.6
 - 31.03 Care for the injured/ill elderly. (H)A2.6
 - 31.04 Care for the injured/ill physically disabled. (H)A2.6,(H)B3.1, B3.4, B3.7, B3.8
 - 31.05 Care for the injured/ill developmentally disabled. (H)A2.6
- 32.0 PROVIDE TRIAGE TO VICTIMS OF MULTIPLE CASUALTY INCIDENTS--The student will be able to:
- 32.01 Categorize the victims of multiple casualty incidents according to the severity of injury or illness on the basis of patient assessments. (M)E3.1
 - 32.02 Use triage tags or other identification devices available locally to indicate priorities for pre-hospital emergency care and transportation to medical facilities.
 - 32.03 Work as a member of a team to perform triage at locations of multiple casualty incidents.
 - 32.04 Work as a member of a team to perform patient assessments at locations of multiple casualty incidents.
 - 32.05 Work as a member of a team to carry out patient care procedures at the locations of multiple casualty incidents.
- 33.0 RECOGNIZE LIFE-THREATENING SITUATIONS--The student will be able to:
- 33.01 Take steps to minimize the chance of injury or death to all involved when confronted with a potentially life-threatening situation on the basis of an assessment of a scene. (H)B1.1, B1.2, B1.5
- 34.0 RECOGNIZE ENTRAPMENT SITUATIONS--The student will be able to:
- 34.01 Identify accident-related hazards and undertake hazard control measures consistent with the capabilities of the First Responder and available equipment. (H)A2.6
 - 34.02 Use available equipment safely to gain access to persons who are entrapped. (M)C1.1, C2.2
 - 34.03 Use available equipment safely to disentangle persons from mechanisms of entrapment. (M)C1.1, C2.2
- 35.0 ASSIST WITH EMERGENCY CHILDBIRTH--The student will be able to:
- 35.01 Evaluate a mother to determine whether delivery is imminent.

- 35.02 Assist with a normal delivery. (LA)A1.4, B1.3, B2.2, C3.1, C3.2, C3.3, C3.4, D1.1, D1.2, D1.3
- 35.03 Care for the mother and baby.
- 35.04 Identify abnormal childbirth situations and care for the mother and baby within the First Responder's capabilities.

36.0 IDENTIFY CRITICAL INCIDENT STRESSORS--The student will be able to:

- 36.01 Identify stressors which may affect the performance of a First Responder. (H)B1.3
- 36.02 Identify stressors which may affect the behavior of a sick or injured person. (H)B3.1, B3.7, B3.4
- 36.03 Carry out procedures to minimize critical incident stress.

37.0 COMMUNICATE PATIENT INFORMATION TO APPROPRIATE AUTHORITIES--The student will be able to:

- 37.01 Describe information regarding a patient's condition and treatment that need to be communicated. (LA)A1.4, B1.3, B2.2, C3.1, C3.2, C3.3, C3.4, D1.1, D1.2, D1.3
- 37.02 Communicate the First Responder's observations and actions to whomever patient care is transferred. (LA)A1.4, B1.3, B2.2, C3.1, C3.2, C3.3, C3.4, D1.1, D1.2, D1.3

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Florida Department of Education
INTENDED OUTCOMES

Program Title: Health Unit Coordinator (Secondary)

Secondary

Program Numbers 8417180
CIP Number 0317.051301
Grade Level 10-12, 30, 31 (The courses Health Science 1 and Health Science 2 are 9-12)
Standard Length 3 credits
Certification:
8417100 Health Science 1 ANY HEALTH OCCUP ED G
8417110 Health Science 2 ANY HEALTH OCCUP ED G
8417181 Health Unit Coordinator 3 PRAC NURSE @7 G
REG NURSE G
TEC MED !7 G
NURSING ED @5
MED RECTEC @ 7 G
Facility Code: 252
Basic Skills N/A
Math 8
Language 10
Reading 10

MAJOR CONCEPTS/CONTENT: The three courses in this program are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)
- 8417181 - Health Unit Coordinator 3 (one credit)

This program is designed to prepare students for employment as health unit (245.362-014) or health unit coordinators. Transcription of physicians' orders is an integral part of this course. This competency is achieved through simulated practice with standard equipment and supplies used in a health care facility by the health unit coordinator. Clinical learning experiences are an integral part of this program.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)

This program meets the Department of Health and HIV/AIDS education requirements and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements. Upon completion of this program,

the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

It is recommended that completers of this program take the National Association of Health Unit Coordinators Certification examination which is offered annually.

INTENDED OUTCOMES: After successfully completing this program, the student will be able to:

OCCUPATIONAL COMPLETION POINT - DATA CODE A

Health Unit Clerk - DOT Code 245.362-014

HEALTH SCIENCE 1 (01.0 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.
- 05.0 Identify and explain factors relating to the transmission of disease.

HEALTH SCIENCE 2 (06.0 - 16.0)

- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.
- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

HEALTH UNIT COORDINATOR 3 (17.0 - 23.0)

- 17.0 Interpret and apply medical terminology specific to health unit clerks.
- 18.0 Organize and maintain efficient work practices.
- 19.0 Perform clerical duties.
- 20.0 Practice safety/security.
- 21.0 Operate computers.
- 22.0 Read, interpret and transcribe physicians' orders.
- 23.0 Monitor EKG results.

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems. (LA) A1.3
 - 01.02 Identify body cavities and the organs they contain. (LA) A1.3
 - 01.03 Define the chemical processes that maintain life. (S) F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA) A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA) A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue. (S)F1.2
 - 03.04 Define the location and function of tissues. (S)F1
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system. (LA) A1.3
 - 04.03 Identify health careers related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease. (H)B1.2
 - 05.02 List and explain indirect causes of disease. (H)B1.2
 - 05.03 Explain the chain of transmission. (LA)C3.3 (H)B3
 - 05.04 Discuss the immune system. (H)B3 (LA)C3

- 05.05 Define and explain homeostasis. (LA)C3
- 05.06 List and discuss the body's defense mechanisms. (H)C(LA)C3
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases. (S)F2
- 05.14 Identify current issues related to genetic research. (S)F2

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:

- 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
- 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
- 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
- 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
- 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
- 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
- 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1

07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:

- 07.01 Develop basic listening skills. (LA)C1.1
- 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
- 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
- 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
- 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
- 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3
- 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
- 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
- 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6

- 07.10 Demonstrate telephone usage including taking messages.
(LA)C1.1
- 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
- 07.12 Distinguish between factual reports and personal opinion.
(LA)C2.1

- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
 - 08.01 Discuss the legal framework of the health care occupations.
(LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers.
(LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6

- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
 - 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)G2.6, D1.3, 1.4 (SS)A3.5 (LA)A2.1 (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid. (LA)C1.3 (H)A1.5, 1.9

- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:
 - 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.

- 10.06 Demonstrate procedures for the safe transport and transfer of patients. (S)C1&2
- 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1

- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
 - 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action. (H)B3.7, C.5

- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
 - 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation.
 - 12.02 Demonstrate knowledge of surgical asepsis. (H)B1.1,2,3,4,5
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (LA)C3.2

- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
 - 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.07 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1

- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 14.01 Conduct a job search. (M)E1.1, (LA)A1.1,2,3
 - 14.02 Secure information about a job. (LA)A1.1,2,3, B2.4
 - 14.03 Identify documents that may be required when applying for a job. (LA)A1.1,2,3, B1.1, 1.3
 - 14.04 Complete a job application form correctly. (LA)A1.2,3, B1.3
 - 14.05 Demonstrate competence in job interview techniques. (LA)C1,2,3
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons. (H)B3.4,5, C2.1
 - 14.07 Identify acceptable work habits. (LA)B2.2,4
 - 14.08 Demonstrate knowledge of how to make job changes appropriately. (LA)B2.2,4
 - 14.09 Demonstrate desirable health habits. (H)A1.3,4,5, A2.1,6, B1.1,2,5
 - 14.10 Recognize appropriate affective/professional behavior. (H)A2.6
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3, B2.2,4

15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:

- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (LA)A2.7
- 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
- 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (LA)A2.6, (H)B3.7, C1.1
- 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (H)B3.7
- 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (H)B1.2

16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:

- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
- 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
- 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
- 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
- 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
- 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3
- 16.07 Organize and communicate the results obtained by observation and experimentation. (H)1, (LA)B2.4
- 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2 (LA)B2.2
- 16.09 Calculate ratios. (LA) B1.3 (M) A1,2,3

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Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417181
Course Title: Health Unit Coordinator 3
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

17.0 INTERPRET AND APPLY MEDICAL TERMINOLOGY SPECIFIC TO HEALTH UNIT CLERKS--The student will be able to:

- 17.01 Identify components of medical terms. (LA)A1.3,(LA)A1.2, (LA)B2.(H)2
- 17.02 Spell, pronounce and define medical terms, as related to Health Unit Coordinator. (LA)A1.3,(L)B2.2
- 17.03 Relate medical terminology to the body systems. (LA)B2.3,4 3.2
- 17.04 Identify and define standard abbreviations and medical symbols. (LA)A1.2, 1.4
- 17.05 Identify apothecary and metric systems. (M)A1,2, B2.2,3, 3.3 A2.1-3, B4.2

18.0 ORGANIZE AND MAINTAIN EFFICIENT WORK PRACTICES--The student will be able to:

- 18.01 Arrange daily activities by priority. (H)B3.2
- 18.02 Prepare and post unit information lists. (H)B3.2
- 18.03 Maintain a supply of assembled medical/surgical admission packets. (H)B3.2
- 18.04 Assemble/disassemble addressograph plate. (H)B3.2
- 18.05 Distribute forms and articles from in-basket. (H)B3.2
- 18.06 Identify, store and maintain unit equipment/supplies in a neat and orderly manner. (H)B3.2
- 18.07 Sanitize nursing station equipment.

19.0 PERFORM CLERICAL DUTIES--The student will be able to:

- 19.01 Record patients' allergies. (LA)B.1
- 19.02 Prepare and add forms to chart. (H)B3.1
- 19.03 Record vital signs and patient information. (H)B3,4
- 19.04 Prepare patients' admission chart. (H)B3.1,2
- 19.05 Record admission data on unit records. (H)B3.1
- 19.06 Prepare discharge chart for medical records. (H)B3.1
- 19.07 Obtain previous admission records/X-rays. (H)B3.1
- 19.08 Post all reports on charts. (H)B3.1,4
- 19.09 File and retrieve assorted forms. (H)B3.1
- 19.10 Perform patient admission, transfer and discharge procedures. (H)B3.1

20.0 PRACTICE SAFETY/SECURITY--The student will be able to:

- 20.01 Participate in emergency or disaster plan, CPR and first aid. (H)B2.4,5 B1,2
- 20.02 Initiate codes upon nurse's directions. (H)B1.5
- 20.03 Contact nursing personnel regarding EKG abnormalities. (H)A2.6

21.0 OPERATE COMPUTERS--The student will be able to:

- 21.01 Sign on to computers. (H)B3,4
- 21.02 Enter data/computer code. (H)B2.2
- 21.03 Correct mistakes. (H)B2.3
- 21.04 Use back-up system. (SS)A1.3 (LA)A2.7
- 21.05 Call up information stored in computer. (H)A2.1,2,3,4,5,6
- 21.06 Keyboard at a minimum of 30 words per minute. (S)I3.5

22.0 READ, INTERPRET AND TRANSCRIBE PHYSICIANS' ORDERS--The student will be able to:

- 22.01 Identify all types of physician's orders. (LA)C1.2,3
- 22.02 Prioritize orders for transcription. (LA)A1.1, 2.8
- 22.03 Prepare and route requisitions manually or via computer. (H)B.3.1,4
- 22.04 Arrange for ordered consultations. (LA)C1.1,3, C3.2,4, D1.2,3, D2.1
- 22.05 Schedule patients' treatments or therapy with other hospital departments. (LA)C2.2,4, C1.1, 1.4, D1,2,3

23.0 MONITOR EKG RESULTS--The student will be able to:

- 23.01 Identify and report deviations from normal sinus rhythm. (H)A2.6, C2.1
- 23.02 Operate monitor equipment. (LA)B1.3, B2.2

July 2001

Florida Department of Education
INTENDED OUTCOMES

Program Title: Home Health Aide

Secondary

PSAV

Program Numbers	8417190	See Patient Care
CIP Number	0317.040401	Assistant Cluster for
Grade Level	10-12, 30, 31	PSAV information.
	(The courses Health Science 1 and Health Science 2 are 9-12)	
Standard Length	2.5 credits	
Certification:		
8417100	Health Science 1	ANY HEALTH OCCUP ED G
8417110	Health Science 2	ANY HEALTH OCCUP ED G
8417191	Home Health Aide 3	PRAC NURSE @7 G
		REG NURSE G
		NURSING ED @5
Facility Code:	252	
Basic Skills	N/A	
Math		
Language		
Reading		

MAJOR CONCEPTS/CONTENT: The three courses in this program are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)
- 8417191 - Home Health Aide 3 (one-half credit)

This program is designed to prepare students for employment as home attendants or home health aides (66011462), nursing aides and orderlies (66008439), (354.377-014).

The content includes, but is not limited to, instruction in those supportive services that are required to provide and maintain bodily and emotional comfort and to assist the patient toward independent living in a safe environment, as stated in Rules of the Department of Health and Rehabilitative Services, Division of Health, Chapter 10D-68 - Minimum Standards for Home Health Agencies. Clinical experiences, where the student may practice, demonstrate and perform the procedures associated with bedside client care, are an appropriate part of this program.

Section 10D 68.014 Home Health Aide, Administrative Rules, Department of Health and Rehabilitative Services contain much valuable information for program planning. These rules require that if the Home Health Aide receives training through a vocational school where professional standards have been established in accordance with the State Board of Education, a certificate of successful completion shall be on file with the employer.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)

This program meets the Department of Health and HIV/AIDS education requirements and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements. Upon completion of this program, the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

Students who have completed this program and the secondary program Nursing Assistant have met competencies for and may be known as Patient Care Assistants. This program may be taken simultaneously with Nursing Assistant.

INTENDED OUTCOMES: After successfully completing this program, the student will be able to:

OCCUPATIONAL COMPLETION POINT - DATA CODE A (01.0 - 28.0)

HOME HEALTH AIDE - OES Code 66011462

HEALTH SCIENCE 1 (01.0 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.
- 05.0 Identify and explain factors relating to the transmission of disease.

HEALTH SCIENCE 2 (06.0 - 16.0)

- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.

- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

HOME HEALTH AIDE 3 (17.0 - 28.0)

- 17.0 Use verbal and written communications.
- 18.0 Demonstrate legal and ethical responsibilities.
- 19.0 Perform physical comfort and safety functions.
- 20.0 Provide personal patient care.
- 21.0 Perform patient care procedures.
- 22.0 Apply principles of nutrition.
- 23.0 Provide care for geriatric patients.
- 24.0 Apply the principles of infection control.
- 25.0 Provide bio-psycho-social support
- 26.0 Perform supervised management functions, following the patient plan of care.
- 27.0 Assist with rehabilitative activities.
- 28.0 Perform home health-care services.

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems. (LA) A1.3
 - 01.02 Identify body cavities and the organs they contain. (LA) A1.3
 - 01.03 Define the chemical processes that maintain life. (S) F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA) A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA) A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue. (S)F1.2
 - 03.04 Define the location and function of tissues. (S)F1
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system. (LA) A1.3
 - 04.03 Identify health careers related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease. (H)B1.2
 - 05.02 List and explain indirect causes of disease. (H)B1.2
 - 05.03 Explain the chain of transmission. (LA)C3.3 (H)B3
 - 05.04 Discuss the immune system. (H)B3 (LA)C3

- 05.05 Define and explain homeostasis. (LA)C3
- 05.06 List and discuss the body's defense mechanisms. (H)C(LA)C3
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases. (S)F2
- 05.15 Identify current issues related to genetic research. (S)F2

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:

- 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
- 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
- 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
- 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
- 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
- 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
- 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1

07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:

- 07.01 Develop basic listening skills. (LA)C1.1
- 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
- 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
- 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
- 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
- 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3
- 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
- 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
- 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6

- 07.10 Demonstrate telephone usage including taking messages.
(LA)C1.1
- 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
- 07.12 Distinguish between factual reports and personal opinion.
(LA)C2.1

- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
 - 08.01 Discuss the legal framework of the health care occupations.
(LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers.
(LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6

- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
 - 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)G2.6, D1.3, 1.4 (SS)A3.5 (LA)A2.1 (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid. (LA)C1.3 (H)A1.5, 1.9

- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:
 - 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.

- 10.06 Demonstrate procedures for the safe transport and transfer of patients. (S)C1&2
- 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1

- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
 - 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action. (H)B3.7, C.5

- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
 - 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation.
 - 12.02 Demonstrate knowledge of surgical asepsis. (H)B1.1,2,3,4,5
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (LA)C3.2

- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
 - 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.08 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1

- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 14.01 Conduct a job search. (M)E1.1, (LA)A1.1,2,3
 - 14.02 Secure information about a job. (LA)A1.1,2,3, B2.4
 - 14.03 Identify documents that may be required when applying for a job. (LA)A1.1,2,3, B1.1, 1.3
 - 14.04 Complete a job application form correctly. (LA)A1.2,3, B1.3
 - 14.05 Demonstrate competence in job interview techniques. (LA)C1,2,3
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons. (H)B3.4,5, C2.1
 - 14.07 Identify acceptable work habits. (LA)B2.2,4
 - 14.08 Demonstrate knowledge of how to make job changes appropriately. (LA)B2.2,4
 - 14.09 Demonstrate desirable health habits. (H)A1.3,4,5, A2.1,6, B1.1,2,5
 - 14.10 Recognize appropriate affective/professional behavior. (H)A2.6
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3, B2.2,4

15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:

- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (LA)A2.7
- 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
- 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (LA)A2.6, (H)B3.7, C1.1
- 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (H)B3.7
- 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (H)B1.2

16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:

- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
- 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
- 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
- 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
- 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
- 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3
- 16.07 Organize and communicate the results obtained by observation and experimentation. (H)1, (LA)B2.4
- 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2 (LA)B2.2
- 16.09 Calculate ratios. (LA) B1.3 (M) A1,2,3

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417191
Course Title: Home Health Aide 3
Course Credit: .5

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 17.0 USE VERBAL AND WRITTEN COMMUNICATIONS--The student will be able to:
- 17.01 Obtain specified data from patient and family. (LA)A2.1
 - 17.02 Utilize verbal and written information to assist with the patient's plan of care. (LA)C2.1, 2.3, 2.4 A2.7,8 B2.3 (H)C2.1
- 18.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
- 18.01 Demonstrate legal and ethical behavior within the role and scope of home health aide responsibilities.
 - 18.02 Follow policies and procedures affecting the health, safety, and well-being of patients in the home setting. (H)B3.3, C2.5
 - 18.03 Recognize and report signs of substance abuse. (H)B3.7, C1.5
 - 18.04 Follow legal guidelines in charting. (LA)C1, B1.2, 1.3(H)C2.1
 - 18.05 Exhibit behavior supporting and promoting residents' rights.
- 19.0 PERFORM PHYSICAL COMFORT AND SAFETY FUNCTIONS--The student will be able to:
- 19.01 Maintain patient units in the home.
 - 19.02 Adjust bed and side-rails.
 - 19.03 Transfer patient, using mechanical lifters. (S)C2.6
 - 19.04 Turn and position patient. (S)C2.6
 - 19.05 Apply protective devices as directed (e.g. vest or belt). (H)A2.6, B1.5, B3.7
 - 19.06 Apply comfort devices as directed (e.g. foot-board, overbed cradle, alternating pressure mattress). (S)C2.6
 - 19.07 Assist patient to dangle. (S)C2.6, (H)B3.2
 - 19.08 Assist patient in ambulation, including the use of crutch, cane, or walker. (S)C2.6, (H)B3.2
 - 19.09 Assist patient in using wheelchair. (S)C2.6, (H)B3.2
 - 19.10 Assist patient with care and use of prosthetic/orthotic devices. (S)C2.6, (H)B3.2
 - 19.11 Administer back rub. (H)B3.2
 - 19.12 Identify emergency evacuation procedures with adaptations to the home setting. (H)B3.4 (LA)C3.2,4
- 20.0 PROVIDE PERSONAL PATIENT CARE--The student will be able to:

- 20.01 Give bed bath.
- 20.02 Assist with shower or tub bath, including use of specialty tubs.
- 20.03 Assist patient with sink, tub, shower, or bed shampoo.
- 20.04 Shave patient.
- 20.05 Groom patient, including hair, skin, foot, and nail care.
- 20.06 Assist with and/or administer oral hygiene.
- 20.07 Assist patient with toileting.
- 20.08 Assist patient to dress.
- 20.09 Assist patient with meals.

21.0 PERFORM PATIENT CARE PROCEDURES--The student will be able to:

- 21.01 Make unoccupied/occupied bed.
- 21.02 Assist patient in passive range-of-motion exercises.
- 21.03 Apply anti-embolic hose.
- 21.04 Collect, strain, and/or test routine urine specimen.
- 21.05 Monitor catheter drainage system. (M)B1,3,4
- 21.06 Monitor fluid intake and output (I&O), including forcing and restricting fluids. (M)B1,3,4
- 21.07 Observe, record, and report patient's emesis. (M)B1,3,4
- 21.08 Assist patient with sitz bath.
- 21.09 Assist with ostomy care.
- 21.10 Collect stool specimen.
- 21.11 Care for patients receiving oxygen therapy.

22.0 APPLY PRINCIPLES OF NUTRITION--The student will be able to:

- 22.01 Identify nutrients and food groups. (SS)A2.8, 2.9, 2.10
(LA)A2.1
- 22.02 Explain regional, cultural, and religious food preferences.
- 22.03 Describe special diets. (H)A1.9, B2.4
- 22.04 List factors that must be considered when purchasing food.
- 22.05 Prepare a basic food plan. (HA)A1.9
- 22.06 List factors that must be considered when storing food.
- 22.07 Identify methods of maintaining fluid balance. (M)A4.1, B2.1
- 22.08 Identify methods of food preparation.
- 22.09 Discuss preparation and serving of trays in the home.

23.0 PROVIDE CARE FOR GERIATRIC PATIENTS--The student will be able to:

- 23.01 Identify safety principles, as related to the elderly.
(H)A2.6, B1.4,5
- 23.02 Describe general characteristics, particular needs, and problems of the elderly.
- 23.03 Identify attitudes and living habits that promote positive mental and physical health for the elderly. (H)B1.4
- 23.04 Distinguish between fact and fallacy about the aging process.
- 23.05 Identify community resources and services available to the elderly.
- 23.06 Apply Reality Orientation Techniques and Validation Therapy.
(H)A1.3

- 23.07 Provide and involve patients in diversional activities.
 - 23.08 Identify common alterations in elderly patient behavior.
 - 23.09 Provide care for patients with special needs (e.g., impaired hearing, impaired vision, immobility, impaired body functions). (H)A1.3, A2.6, B1.2,3,4
- 24.0 APPLY THE PRINCIPLES OF INFECTION CONTROL--The student will be able to:
- 24.01 Provide care for patients with infectious diseases in the home.
 - 24.02 Follow isolation procedures with food tray, garments, and other materials in the home.
 - 24.03 Utilize universal (standard) precautions in all home care.
- 25.0 PROVIDE BIO-PSYCHO-SOCIAL SUPPORT--The student will be able to:
- 25.01 Discuss family roles and their significance to health.
(H)B2.3,4 B3.2,4,8, C1.1, 2.2,3
 - 25.02 Respond to patient and family emotional needs. (H)B3.2,3,4
- 26.0 PERFORM SUPERVISED MANAGEMENT FUNCTIONS, FOLLOWING THE PATIENT PLAN OF CARE--The student will be able to:
- 26.01 Organize patient-care assignments.
 - 26.02 Complete assignments accurately and in a timely manner.
- 27.0 ASSIST WITH REHABILITATIVE ACTIVITIES--The student will be able to:
- 27.01 List the purposes of restorative (rehabilitation) programs.
 - 27.02 Assist patient with specified restorative (rehabilitation) needs.
 - 27.03 Assist patients/residents to reach the optimum level of independence. (H)A11.3, 2.6
- 28.0 PERFORM HOME HEALTH-CARE SERVICES--The student will be able to:
- 28.01 Follow an established work plan with the patient and family.
 - 28.02 Perform patient-related cleaning tasks and laundry.
 - 28.03 Identify methods for medication storage.
 - 28.04 Assist patient with taking self-administered prescribed medication in the home. (M)B1,3,4
 - 28.05 Demonstrate how to improvise specified equipment and supplies in the home.

July 2001

Florida Department of Education
INTENDED OUTCOMES

Program Title: Medical Laboratory Assisting (Secondary)

Secondary

Program Numbers 8417200
CIP Number 0317.030402
Grade Level 10-12, 30, 31 (The courses Health Science 1 and Health Science 2 are 9-12)
Standard Length 4 credits
Certification:
8417100 Health Science 1 ANY HEALTH OCCUP ED G
8417110 Health Science 2 ANY HEALTH OCCUP ED G
8417201 Medical Laboratory Assisting 3 TEC MED !7 G
LAB ASST @7 G
LAB TECH @7 G
8417202 Medical Laboratory Assisting 4 TEC MED !7 G
LAB ASST @7 G
LAB TECH @7 G
Facility Code: 252

MAJOR CONCEPTS/CONTENT: The four courses in this program are:

8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)
8417201 - Medical Laboratory Assisting 3 (one credit)
8417202 - Medical Laboratory Assisting 4 (one credit)

The program is designed to prepare students for employment as medical/clinical lab technicians (32905207), or medical laboratory aides.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)

This program meets the Department of Health and HIV/AIDS education requirements and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements. Upon completion of this program, the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

Students completing the course Medical Laboratory Assisting 3 have also met the postsecondary requirements of phlebotomy except for clinical experiences involving venipuncture on actual patients.

Students completing the course Medical Laboratory Assisting 4 have also met the postsecondary requirements of Medical Lab Assisting except for some clinical experiences involving live work.

Simulation and clinical laboratory experiences are integrated with the didactic portion of this program. Clinical experience is defined as laboratory activities performed in the clinical setting under the supervision of a medical laboratory technician or technologist.

INTENDED OUTCOMES: After successfully completing this program, the student will be able to:

OCCUPATIONAL COMPLETION POINT - DATA CODE A (01.0 - 27.0)

MEDICAL LAB ASSISTANT - Industry Title

HEALTH SCIENCE 1 (01.0 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.
- 05.0 Identify and explain factors relating to the transmission of disease.

HEALTH SCIENCE 2 (06.0 - 16.0)

- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.
- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

MEDICAL LABORATORY ASSISTING 3 (17.0 -24.0)

- 17.0 Demonstrate accepted professional, communication, and interpersonal skills.
- 18.0 Discuss phlebotomy in relation to the health care setting.

- 19.0 Identify the anatomic structure and function of body systems in relation to services performed by phlebotomist.
- 20.0 Recognize and identify collection reagents, supplies, equipment and interfering chemical substances.
- 21.0 Demonstrate skills and knowledge necessary to perform phlebotomy.
- 22.0 Practice infection control following universal precautions.
- 23.0 Practice accepted procedures of transporting, accessioning and processing specimens.
- 24.0 Practice quality assurance and safety.

MEDICAL LABORATORY ASSISTING 4 (25.0 -27.0)

- 25.0 Perform clinical laboratory "waived tests" based on knowledge of microbiology, urinalysis, clinical chemistry, and hematology.
- 26.0 Perform venipuncture and skin punctures, prepare blood smears, label and process specimens.
- 27.0 Successfully complete learning experiences in the clinical setting.

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems. (LA) A1.3
 - 01.02 Identify body cavities and the organs they contain. (LA) A1.3
 - 01.03 Define the chemical processes that maintain life. (S) F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA) A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA) A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue. (S)F1.2
 - 03.04 Define the location and function of tissues. (S)F1
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system. (LA) A1.3
 - 04.03 Identify health careers related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease. (H)B1.2
 - 05.02 List and explain indirect causes of disease. (H)B1.2
 - 05.03 Explain the chain of transmission. (LA)C3.3 (H)B3
 - 05.04 Discuss the immune system. (H)B3 (LA)C3

- 05.05 Define and explain homeostasis. (LA)C3
- 05.06 List and discuss the body's defense mechanisms. (H)C(LA)C3
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases. (S)F2
- 05.16 Identify current issues related to genetic research. (S)F2

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**Florida Department of Education
STUDENT PERFORMANCE STANDARDS**

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:
 - 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
 - 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
 - 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
 - 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
 - 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
 - 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
 - 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1

- 07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:
 - 07.01 Develop basic listening skills. (LA)C1.1
 - 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
 - 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
 - 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
 - 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
 - 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3

- 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
 - 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
 - 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6
 - 07.10 Demonstrate telephone usage including taking messages. (LA)C1.1
 - 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
 - 07.12 Distinguish between factual reports and personal opinion. (LA)C2.1
- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
- 08.01 Discuss the legal framework of the health care occupations. (LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers. (LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6
- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
- 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)G2.6, D1.3, 1.4 (SS)A3.5 (LA)A2.1 (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid. (LA)C1.3 (H)A1.5, 1.9
- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:

- 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.
 - 10.06 Demonstrate procedures for the safe transport and transfer of patients.(S)C1&2
 - 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1
- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
- 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action. (H)B3.7, C.5
- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
- 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation.
 - 12.02 Demonstrate knowledge of surgical asepsis. (H)B1.1,2,3,4,5
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (LA)C3.2
- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
- 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.09 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1
- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
- 14.01 Conduct a job search. (M)E1.1, (LA)A1.1,2,3
 - 14.02 Secure information about a job. (LA)A1.1,2,3, B2.4
 - 14.03 Identify documents that may be required when applying for a job. (LA)A1.1,2,3, B1.1, 1.3
 - 14.04 Complete a job application form correctly. (LA)A1.2,3, B1.3
 - 14.05 Demonstrate competence in job interview techniques. (LA)C1,2,3
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons. (H)B3.4,5, C2.1
 - 14.07 Identify acceptable work habits. (LA)B2.2,4
 - 14.08 Demonstrate knowledge of how to make job changes appropriately. (LA)B2.2,4

- 14.09 Demonstrate desirable health habits. (H)A1.3,4,5, A2.1,6, B1.1,2,5
 - 14.10 Recognize appropriate affective/professional behavior. (H)A2.6
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3, B2.2,4
- 15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:
- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (LA)A2.7
 - 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
 - 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (LA)A2.6, (H)B3.7, C1.1
 - 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (H)B3.7
 - 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (H)B1.2
- 16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:
- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
 - 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
 - 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
 - 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
 - 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
 - 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3
 - 16.07 Organize and communicate the results obtained by observation and experimentation. (H)1, (LA)B2.4
 - 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2 (LA)B2.2
 - 16.09 Calculate ratios. (LA) B1.3 (M) A1,2,3

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Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417201
Course Title: Medical Laboratory Assisting 3
Course Credit: 1

This one credit course is the third course of a four course occupational completion point for Medical Lab Assistant. Live work is not recommended for this course. Students completing this course have also met the postsecondary requirements of phlebotomy except for clinical experiences with live work

17.0 DEMONSTRATE ACCEPTED PROFESSIONAL, COMMUNICATION, AND INTERPERSONAL SKILLS--The student will be able to:

- 17.01 Demonstrate the appropriate professional behavior of a phlebotomist. (LA)B2.3&4; (SS)B2.1; (H)C2.5, (H)C,B3.1
- 17.02 Explain to the patient the procedure to be used in specimen collection. (LA) A1.2&3, 2.4&8; C1.3, 3.1-4, D1.2&3; (S)F1.1&7
- 17.03 Explain in detail the importance of identifying patients correctly when drawing blood. (H)B3.4, C2.1; (LA)A1.3, 2.8; C3.1; D1.2&3; (S)F1.7; (SS)B2.1
- 17.04 Assist in explaining activities to patient (H)C 3.4, C2.1; (LA)A1.3, 2.8, C3.1, D1.2&3; (S)F1.7; (SS)2.1

18.0 DISCUSS PHLEBOTOMY IN RELATION TO THE HEALTH CARE SETTING--The student will be able to:

- 18.01 List, classify and discuss various departments and services within the health care setting in which the phlebotomist must interact with to obtain laboratory specimens from patients. (H)A1.7&8, 2.6, B3.1,2,4, C2.1,5; B1.3,2.1, D1.1; (LA)A2.6, 2.1,2,4, C1.1, 3.1, D1.2,3; (S)H2.2, 3.1,2,5,6; (SS)B2.1, D1.1, 2.3
- 18.02 Identify the major departments/sections with the clinical laboratory, the major types of procedures run in each department/section, and their specimen requirements. (H)A1.8, 2.6 (LA)A1.3, 2.8, B2.2-4; (S)H1.2,7, 3.1, 25
- 18.03 Describe roles of the major classifications of clinical laboratory personnel (i.e., pathologist chief/administrative technologist, CLS, MT, phlebotomist, etc.). (LA)A1.1,3, 2.4,7,8, B1.3, 2.4, D1.2, H3.2

19.0 IDENTIFY THE ANATOMIC STRUCTURE AND FUNCTION OF BODY SYSTEMS IN RELATION TO SERVICES PERFORMED BY PHLEBOTOMIST--The student will be able to:

- 19.01 Describe and define major body systems with emphasis on the circulatory system. (H)A1.1; (LA)A1.2,3, 2.1,2,6,7,8,

- B1.2,3, 2.1-4; (S)A1.1-5, 2.1-3,5, B1.1,3, B2.1, F1-8, 2.2, G1.3
- 19.02 List and describe the main superficial veins used in performing venipunctures. (LA)A1.1-4,2.1,3,4,6-8,B1.1-32.1-4, 2.1, 3,4, C3.2-5, D1.2-4; (S)F1.1-8
- 19.03 Identify appropriate sites for capillary/venipuncture and name/find the most desirable one(s). (LA)A1.1,2,3, 2.1,4, B1.1,2
- 19.04 Describe the function of the following blood components: erythrocytes, thrombocytes, leukocytes, plasma, and serum. (LA)A1.3,4, 2.1,2,4,6-8, B1.2,3, 2.1,3,4, C3.2,3,4; (S)F1.1,2
- 20.0 RECOGNIZE AND IDENTIFY COLLECTION REAGENTS, SUPPLIES, EQUIPMENT AND INTERFERING CHEMICAL SUBSTANCES--The student will be able to:
- 20.01 Identify and discuss proper use of appropriate types of equipment needed to collect various clinical laboratory blood specimens by venipuncture. (LA)A1.2,3, 2.4,5,7,8; B1.1,2,3, 2.1,3,4; D1.2
- 20.02 Explain the special precautions and types of equipment needed to collect blood from a neonate. (H)A1.2; B1.1,3, 2.1, 3.1, 4.2,(LA)B1.1,2, 2.1, 3-4; C3.1-4, D2.2; (S)F1.7
- 20.03 Identify and discuss proper use of supplies used in collecting microspecimens (H)A1.2; (LA)A1.1,3,4, 2.1,4, B1.2, 2.1,3,4, C3.1,2,3,4
- 20.04 Identify and discuss the proper use of the various types of anticoagulants, preservatives and gels used in blood collection and the vacuum tube color-codes for these additives. (S)F1.1, 2.2 (LA)A1.1,2,3, 2.1,6,8, B1.2,3,2, C1.1,3, 2.1, 3.1,3,4, D1.2,3
- 20.05 Describe the types of patient's specimens that are analyzed in the clinical laboratory and the phlebotomist's role in collecting and/or transporting these specimens to the laboratory. B2.1, 3.1
- 20.06 Describe substances potentially encountered during phlebotomy which can interfere in analysis of blood constituents. (LA)A1.1-4, 2.1,3, 2.1, 2.4,8, B1.2,3,4, C1.1,3, 3.12,3,4 D1.12.4; (S)A1.2, (F)1.1,2,8
- 20.07 Define and utilize correct medical terminology and metric measurement needed for specimen collection. (M)A4.1, B2.1, 3.1; (LA)A1.1,2,3,4, 2.1,4,6,8, B1.2,3, 2.1, 2.1,3,4, C1.1,3, 2.1, 3.1-4, D1.1-3, (S)F1.1,2
- 21.0 DEMONSTRATE SKILLS AND KNOWLEDGE NECESSARY TO PERFORM PHLEBOTOMY--The student will be able to:
- 21.01 Recognize a properly completed requisition and apply established protocol for patient and specimen identification. (H)A1.1; (LA)A1.1-4, 2.1,8, C3.1, D1.1,2
- 21.02 Discuss/perform methods for facilitating capillary/venipuncture collection. (LA)A1.1,2,3, 2.1,2,8, B1.2,3, 2.13,4, C1.3, 3.1-4, D1.2; (S)F1.1

- 21.03 List appropriate antiseptic agents useful in preparing sites for capillary/venipuncture. (H)A1.1, (LA)A1.1,2,3, 2.1,3,4,8, B2.1,3,4, (S)F1.1
- 21.04 Discuss/perform appropriate methods for preparing a site for capillary or venipuncture. (LA)A1.1,2,3, 2.1,2,4,7,8, C1.2,3, 3.1,2,3,4, D1.1
- 21.05 Perform venipuncture by evacuated tube and syringe systems, demonstrating appropriate use of supplies, proper handling of equipment and specimens, and patient care. (LA)A1.1-3, B2.1, 2.1
- 21.06 Describe the correct order of draw during capillary and venipuncture. (LA)A1.1,2,3, 2.1,4,6,7,8, B1.2,3, 2.1,3, 2.1, 3.1-4, D1.1, 2.1,4
- 21.07 Perform a capillary puncture using appropriate supplies and techniques for adults, children and neonates. (LA)A1.1,3,4, 2.1,4,5,6,8, (S)H3.1
- 21.08 Describe the most common complications associated with capillary and venipuncture, their causes, prevention and treatment. (H)A1.2; (LA)A1.1,2,3, 2.1,2,4-8, B1.2,3, 2.1,3,4, C2.1, 3.1-4, (S)F1.1,2,7,8
- 21.09 Describe/perform capillary/venipuncture procedures for disposing of used or contaminated supplies. (H)A1.1,2, 2.1; (LA)A1.1-4, 2.1,4,5,7,8, B1.2,3, 2.1,3,4, C2.1, 3.1-4, D1.1, 2.1; (S)F1.1,2, G1.12.5
- 21.10 Describe/perform appropriate techniques for making a peripheral blood smear for hematologic evaluation. (LA)A1.1-4, 2.1,4,7,8, B1.2,3,21-4, C3.1-4, D1.2, 2.4
- 22.0 PRACTICE INFECTION CONTROL FOLLOWING UNIVERSAL PRECAUTIONS--The student will be able to:
- 22.01 Define the term "nosocomial infection.(LA)A1.1-3, 2.6, C2.1
- 22.02 Describe/practice procedures for infection prevention. (H)A1.1,2,4; (LA)A1.1-4, 2.1,2,4,6-8, B1.2,3, 2.1-4, C1.1, 2.1,31-4, D1.2, 2.1; (S)F1.1,2
- 22.03 Discuss/perform isolation procedures. (H)A1.1; (LA)A1.1-4, 2.1,4,6-8, B1.2,3, 2.1,3-4, C2.1, 3.1-4, D1.1, 2.1
- 22.04 Identify potential routes of infection. (H)A1.1,2,4,8, C1.2, 2.6; (LA)A1.1-3, 2.1,4,8, D1.1, 2.1 (S)F1.1,2
- 23.0 PRACTICE ACCEPTED PROCEDURES OF TRANSPORTING, ACCESSIONING AND PROCESSING SPECIMENS--The student will be able to:
- 23.01 Describe routine procedures for transporting and processing specimens. (LA)A1.1-4, 2.1,4,6-8, B1.2,3, 2.1,3-4, C1.1, 2.1, 3.1-4, D1.1, 2.1,4; (S)F1.1
- 23.02 Describe the significance of time constraints for specimen collection and delivery. (LA)A1.1-4, 2.1,4,6-8, B1.2,3, 2.1,3-4, C1.1, 2.1, 3.1-4, D1.1, 2.1,4; (S)F1.1
- 23.03 Demonstrate knowledge of accessioning procedures. (LA)A1.1-4, 2.6,8, C3.1-4, D1.1,
- 23.04 Aliquot samples for testing. (LA)A1.1-4, 2.4,8, D1.1, (S)H1.7, H1.5

23.05 Follow protocol for accepting verbal test orders. (LA)A1.1-4, 2.8, C1.1.3, 3.1-4, D1.1

24.0 PRACTICE QUALITY ASSURANCE AND SAFETY--The student will be able to:

24.01 Distinguish and perform procedures which ensure reliability of test results when collecting blood specimens. (LA)A1.1-4, 2.1,4,6-8, B1.2,3, 2.1-4, C1.1, 2.1, 3.1-4, D1.1; (S)H1.1, H3.1,6

24.02 Demonstrate knowledge of and practice appropriate patient safety. (H)A1.1,2,7,8; (LA)A1.1-4, 2.1,4,6-8, C1.1, 2.1, 3.1-4, D1.2; (S)F1.1, H1.7,3.3

24.03 Practice laboratory safety in accordance with established procedures. (LA)A1.1-4, 2.4,6-8, C2.1

24.04 Follow documentation procedures for work related accidents.(H)A1.2; (LA)A1.1-4, 2.4, 6-8, B1.2,3, 2.1-4, D1.2, 2.1;(S)H1.7

**Florida Department of Education
STUDENT PERFORMANCE STANDARDS**

Course Number: 8417202
Course Title: Medical Laboratory Assisting 4
Course Credit: 1

This one credit course is the fourth course of a four course occupational completion point for Medical Lab Assistant. Students completing this course have also met the postsecondary requirements of Medical Lab Assisting except for clinical experiences involving live work.

25.0 PERFORM CLINICAL LABORATORY SKILLS BASED ON KNOWLEDGE OF MICROBIOLOGY, URINALYSIS, CLINICAL CHEMISTRY, AND HEMATOLOGY--The student will be able to:

- 25.01 Perform techniques of microbiology related to disinfecting techniques. (H)A1.2, (H)A2.1; (LA)A1.1-3, 2.4, 7,8, D1.2
- 25.02 Perform techniques of microbiology related to isolation techniques. (H)A1.2,4; (LA)A1.1-3, 2.4,7,8, D1.2
- 25.03 Perform techniques of microbiology related to sterilization techniques. (H)A1.2,4; (LA)A1.1-3, 2.4,7,8, D1.2
- 25.04 Perform techniques of microbiology related to preparation, staining and microscopic examination of gram stains. (H)A1.2,4,8; (LA)A1.1-3, 2.4,7,8, D1.2
- 25.05 Perform techniques of microbiology related to inoculation and transfer of cultures. (LA)A1.1-3, 2.4,7,8, D1.2
- 25.06 Perform basic techniques of microbiology. (LA)A1.1-3, 2.4,7,8, D1.2
- 25.07 Perform techniques of microbiology related to preparation of artificial culture media. (LA)A1.1-3, 2.4,7,8, D1.2
- 25.08 Perform techniques of microbiology related to principles and use of the microscope. (LA)A1.1-3, 2.4,7,8, D1.2;(S)H3.1,6
- 25.09 Perform urinalysis techniques related to normal and abnormal components of the urine. (H)A1.1,2; (LA)A1.1-3,2.4,7,8,D1.1;SF1.2
- 25.10 Perform urinalysis techniques related to collection and preservation of specimens. (LA)A1.1-3,2.4,7,8,SF1.1,2
- 25.11 Perform urinalysis techniques related to physical properties of urine and related odors, color. (LA)A1.1-3,2.4,7,8,D1.3,SF1.1,H3.1,6
- 25.12 Perform urinalysis techniques related to urine pH and describe clinical significance. (LA)A1.1-4, 2.1,4,6-8,B1.2,3,2.1-4,C1.3, 2.2, 3.1-4, D1.3,4; (SF)1.1, G1.3, H3.1
- 25.13 Perform urinalysis techniques related to urine specific gravity techniques; calibration and use of urinometers and refractometers. (LA)A1.1-4, 2.4,7,8, D1.3; (MA)1.3,4, 2.1-3, 4.1, 5.1, B1.1, 2.1, 3.1, 4.1,2, D1.1,2.1,2, E1.1-3, 3.1; (S)C2.1,H1.1, 3.1,6
- 25.14 Perform urinalysis techniques related to performance of chemical tests. (LA)A1.1-3, 2.4,7,8; (S)A1.4, F1.1

- 25.15 Perform urinalysis techniques related to microscopic identification of significant elements. (M)A1.3, B3.1; (LA)A1.1-3, 2.4,7,8, D1.3; S12.5, (S)F1.1, H3.1,6
- 25.16 Perform urinalysis techniques related to principles and use of centrifuge. (LA)A1.1-3, 2.4,7,8, D1.3; (S)F1.1, H1.1, 3.1,6
- 25.17 Perform techniques of clinical chemistry related to metric measurement.(MA)1.1-4, 2.1-3, 3.1-3, 5.1, B2.1, 3.1; (LA)A1.1-3, 2.4,6-8,C1.1,(S)A1.3, H1.1,7, 3.1,6
- 25.18 Perform techniques of clinical chemistry related to laboratory glassware and equipment. (LA)A1.1-3, 2.4,7,8
- 25.19 Perform techniques of clinical chemistry related to reagent preparation, laboratory equipment and laboratory techniques. (LA)A1.1-3, 2.4,7,8; (S)A1.5, H3.1,6
- 25.20 Perform techniques of clinical chemistry related to preparation of protein free filtrate and chemical tests. (M)E1.1,3, 2.2, 3.1;(LA)A1.1-3, 2.4,7,8, C2.1, D1.3; (S)A1.3, F1.1,5, H1.1, 3.1,6
- 25.21 Perform techniques of clinical chemistry related to standardization of procedure and use of standards, blanks and controls. (M)D1.1, 2.1,2, E1.1,2, 2.1; (LA)A1.1-3,2.4,6-8, C1.1, D1.3; (S)A1.1,3, F1.1,6, H1.1,7, 3.1,6
- 25.22 Perform techniques of clinical chemistry related to visual colorimetry; calibration and use of the spectrophotometer.
- 25.23 Perform basic techniques of clinical chemistry related to normal and abnormal physiology. (H)A1.2; (LA)A1.1-3, 2.4,6-8, C2.1, D1.3,(S)A1.4, B1.3, F1.1,4, H1.1,2, 3.1,6
- 25.24 Perform techniques of hematology related to counting formed elements of blood.(M)A1.1-4, 2.1-3, 3.1-3, 4.1, 5.1, B2.1, 3.1, 4.1-2; (LA)A1.1-3, 2.4,6-8, C2.1, D1.3; (S)A1.1,3, F1.1, H1.1,7, 3.1,6
- 25.25 Perform techniques of hematology related to preparation, staining and cell differential microscopic examination of blood films. (LA)A1.1-3, 2.4,7,8, B1.2,3, 2.1,2,3,4 C1.1; (S)F1.1, H1.1, 3.1,6
- 25.26 Perform techniques of hematology related to hematocrit tests. (LA)A1.1-3, 2.4,7,8; (S)F1.1
- 25.27 Perform techniques of hematology related to bleeding and clotting times. (LA)A1.1-3, 2.4,6-8; (S)F1.1, H3.1,6
- 25.28 Perform techniques of hematology related to hemoglobin tests. (LA)A1.1-3, 2.4,6-8;(S)F1.1, H1.1, 3.1,6
- 25.29 Perform techniques of hematology related to calculation of red blood cell indices.(M)A1.1-4, 2.1-3, 3.1-3, B3.1, 4.1,2, E1.3,3.1; (LA)A1.1-3, 2.4,7,8, B1.2,3, 2.1,3, C1.1, D1.3;(S)F1.1, H1.1,6
- 25.30 Perform basic techniques of hematology related to normal and abnormal physiology.(H)A1.1,2; (LA)A1.1-3, 2.4,7,8, C1.1, D1.3;(S)F1.1,5, H1.1, 3.1,6

26.0 PERFORM VENIPUNCTURES AND SKIN PUNCTURES, PREPARE BLOOD SMEARS, LABEL AND PROCESS SPECIMENS--The student will be able to:

- 26.01 Demonstrate knowledge of established protocol for patient and specimen identification. HA1.1,2;LAA1.1-4,2.1,4,6-8,B1.2,3,2.13,4,C1.1,3.1-4,D1.3,2.14;SF1.1,H3.1,6
- 26.02 Perform appropriate methods for decontaminating site for skin or venipuncture. (H)A1.1,8; (LA)A1.1-3, 2.4,7,8, C2.1, D1.3;(S)F1.1, H3.1,6
- 26.03 Perform venipunctures by evacuated tube and syringe systems. (LA)A1.1-3, 2.4,7,8;(S)F1.1
- 26.04 Perform skin punctures. (LA)A1.1-3, 2.4,7,8;(S)F1.1
- 26.05 Prepare blood smears. (LA)A1.1-3, 2.4,7,8;(S)F1.1, H1.,6
- 26.06 Label and process specimens. (LA)A1.1-4, 2.4,7,8, B1.2,3, 2.1,3,4,(S)F1.1, H3.6

27.0 SUCCESSFULLY COMPLETE LEARNING EXPERIENCES IN THE CLINICAL SETTING--The student will be able to:

- 27.01 Observe and participate as appropriate in skills outlined in outcomes for medical lab assisting. (LA)A1.1-3, 2.4,7,8, C2.1;(S)F1.1, H3.1,6
- 27.02 Complete clinical rotations. (LA)A1.1-3, 2.4,7,8, B1.2,3, 2.1,3,4, C3.1-4, D1.2,3, 2.1-3,(S)F1.1, H1.1, 3.1,6

July 2001

Florida Department of Education
INTENDED OUTCOMES

Program Title: **Nursing Assistant**
 (Acute and Long Term Care)

Secondary

Program Numbers **8417210**
CIP Number 0317.060201
Grade Level 10-12, 30, 31 (The courses Health Science 1 and
 Health Science 2 are 9-12)
Standard Length 3 credits
Certification:
 8417100 Health Science 1 ANY HEALTH OCCUP ED G
 8417110 Health Science 2 ANY HEALTH OCCUP ED G
 8417211 Nursing Assistant 3 PRAC NURSE @7 G
 NURSING ED @5
 REG NURSE G
Facility Code: 252

MAJOR CONCEPTS/CONTENT: The three courses in this program are:

 8417100 Health Science 1 (one credit)
 8417110 Health Science 2 (one credit)
 8417211 Nursing Assistant 3 (one credit)

This course is designed to prepare students for employment as nursing assistants (66008445), (355.674-014), nurse aides, in nursing homes, hospitals, or other health care facilities.

Successful completion of this program from an approved school prepares the student for certification for employment as a Nursing Assistant in a nursing home, in accordance with Chapter 82-163, Florida Statutes. To be approved, the course must be taught by a registered nurse. Those students who satisfactorily complete an approved course are eligible to take the national nursing assistant examination being utilized in Florida, in accordance with Chapter 82-163, F.S. Nursing assistants do not need to be certified except to work in nursing homes unless it is a condition for employment in other institutions. This program includes both Acute and Long Term Care.

Students will perform nursing skills in the clinical and/or simulated laboratory settings under the supervision of a qualified registered nurse instructor. The recommended teacher/student ratio in the clinical area is 1 to 12. Clinical and simulated laboratory learning experiences must correlate with didactic instruction. For nursing assistant certification a minimum of 40 hours clinical and/or cooperative education learning experiences must be obtained. Twenty hours of this clinical experience must be in a licensed nursing home. **PERSONS WHO ARE ENROLLED IN A STATE APPROVED NURSING ASSISTANT TRAINING PROGRAM,**

APPROVED BY THE DEPARTMENT OF EDUCATION, MAY BE EMPLOYED BY A LICENSED NURSING HOME FOR A PERIOD OF FOUR MONTHS. THE CERTIFICATION REQUIREMENTS MUST BE MET WITHIN FOUR MONTHS OF SUCH INITIAL EMPLOYMENT, HOWEVER.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

- 8417100 - Health Science 1 (one credit)
- 8417110 - Health Science 2 (one credit)

This program meets the Department of Health and HIV/AIDS education requirements and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements. Upon completion of this program, the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

Students completing this program and the course Home Health Aide 3 have met the requirements for and may be known as a Patient Care Assistant.

INTENDED OUTCOMES:

***OCCUPATIONAL COMPLETION POINT - DATA CODE A
NURSING ASSISTANT - OES Code 66008445***

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

HEALTH SCIENCE 1 (01.0 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.
- 05.0 Identify and explain factors relating to the transmission of disease.

HEALTH SCIENCE 2 (06.0 - 16.0)

- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.

- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.
- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

NURSING ASSISTANT 3 (17.0 - 30.0)

- 17.0 Use verbal and written communications specific to nurse assisting.
- 18.0 Demonstrate legal and ethical responsibilities specific to nurse assisting.
- 19.0 Perform physical comfort and safety functions specific to nurse assisting.
- 20.0 Provide personal patient care.
- 21.0 Perform patient care procedures.
- 22.0 Apply principles of nutrition.
- 23.0 Provide care for geriatric patients.
- 24.0 Apply the principles of infection control specific to nursing assisting.
- 25.0 Provide biological, psychosocial, and social support.
- 26.0 Perform supervised organizational functions, following the patient plan of care.
- 27.0 Assist with restorative (rehabilitative) activities.
- 28.0 Perform skills related to the hospital setting.
- 29.0 Provide care for the adult patient.

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems. (LA) A1.3
 - 01.02 Identify body cavities and the organs they contain. (LA) A1.3
 - 01.03 Define the chemical processes that maintain life. (S) F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA) A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA) A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue. (S)F1.2
 - 03.04 Define the location and function of tissues. (S)F1
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system. (LA) A1.3
 - 04.03 Identify health careers related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease. (H)B1.2
 - 05.02 List and explain indirect causes of disease. (H)B1.2
 - 05.03 Explain the chain of transmission. (LA)C3.3 (H)B3
 - 05.04 Discuss the immune system. (H)B3 (LA)C3

- 05.05 Define and explain homeostasis. (LA)C3
- 05.06 List and discuss the body's defense mechanisms. (H)C(LA)C3
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases. (S)F2
- 05.17 Identify current issues related to genetic research. (S)F2

**Florida Department of Education
STUDENT PERFORMANCE STANDARDS**

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:

- 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
- 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
- 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
- 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
- 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
- 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
- 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1

07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:

- 07.01 Develop basic listening skills. (LA)C1.1
- 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
- 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
- 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
- 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
- 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3
- 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
- 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
- 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6

- 07.10 Demonstrate telephone usage including taking messages.
(LA)C1.1
- 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
- 07.12 Distinguish between factual reports and personal opinion.
(LA)C2.1

- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
 - 08.01 Discuss the legal framework of the health care occupations.
(LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers.
(LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6

- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
 - 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)62.6, D1.3, 1.4 (SS)A3.5 (LA) A2.1) (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid.(LA)C1.3 (H)A1.5, 1.9

- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:
 - 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.

- 10.06 Demonstrate procedures for the safe transport and transfer of patients. (S)C1&2
- 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1

- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
 - 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action.

- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
 - 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation. (S)G2.6
 - 12.02 Demonstrate knowledge of surgical asepsis. (S)G2.6
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (S)G2.6 (LA)C3.2

- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
 - 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.10 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1

- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 14.01 Conduct a job search.
 - 14.02 Secure information about a job.
 - 14.03 Identify documents that may be required when applying for a job. (LA)B1.1, 1.3
 - 14.04 Complete a job application form correctly.
 - 14.05 Demonstrate competence in job interview techniques.
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons.
 - 14.07 Identify acceptable work habits.
 - 14.08 Demonstrate knowledge of how to make job changes appropriately.
 - 14.09 Demonstrate desirable health habits. (S)G2.5
 - 14.10 Recognize appropriate affective/professional behavior.
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3

- 15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:

- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (S)G.2.6 (LA)A2.7
 - 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
 - 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (S)G.2.6 (LA)A2.6
 - 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (S)G.2.6
 - 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (S)G.2.6
- 16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:
- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
 - 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
 - 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
 - 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
 - 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
 - 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3 (S)H1
 - 16.07 Organize and communicate the results obtained by observation and experimentation.
 - 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2
 - 16.09 Calculate ratios. (S) H1, 2, 3 (LA) B1.3 (M) A1,2,3

July 2001

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417211
Course Title: Nursing Assistant 3
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

17.0 USE VERBAL AND WRITTEN COMMUNICATIONS SPECIFIC TO NURSE ASSISTING--
-The student will be able to:

- 17.01 Obtain specified data from patient and family. (LA)A2.1
- 17.02 Utilize verbal and written information to assist with the patient's plan of care. (LA)C2.1, 2.3, 2.4;A2.7,8;B2.3;(H)C2.1
- 17.03 Demonstrate use of the intercom. (LA)C2.1, 2.3, 2.4;B2.4

18.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES SPECIFIC TO NURSE ASSISTING--The student will be able to:

- 18.01 Demonstrate legal and ethical behavior within the role and scope of nursing assistant responsibilities.
- 18.02 Describe the purpose of the chain of command (i.e., to resolve patient or employee problems. (LA)C3.2;(H)B3.2,5
- 18.03 Follow policies and procedures affecting the health, safety, and well-being of patients.(H)B3.3,C2,5
- 18.04 Recognize and report signs of substance abuse.(H)B3.7;C1.5
- 18.05 Follow legal guidelines in charting. (LA)C1, B1.2, 1.3;(H)C2.1
- 18.06 Exhibit behavior supporting and promoting residents' rights.(H)C2.6

19.0 PERFORM PHYSICAL COMFORT AND SAFETY FUNCTIONS SPECIFIC TO NURSE ASSISTING--The student will be able to:

- 19.01 Maintain patient units and equipment.
- 19.02 Maintain service areas on the units including supplies and equipment.
- 19.03 Observe, report, and note changes in the patient's behavior daily, including mental awareness.(H)A2.6
- 19.04 Adjust bed and side-rails.
- 19.05 Lift, hold, and transfer patients including the use of the mechanical lift, utilizing good body mechanics. (S)C2.6
- 19.06 Turn and position patient. (S)C2.6
- 19.07 Apply protective devices as directed (e.g., vest and belt).(H)A2.6;B1.5;B3.7
- 19.08 Apply comfort devices as directed (e.g., foot-board, overbed cradle, alternating pressure mattress).(S)C2.6
- 19.09 Assist patient to dangle.(S)C2.6;(H)B3.2
- 19.10 Assist patient in ambulation, including the use of crutch, cane, or walker.(S)C2.6;(H)B3.2

- 19.11 Assist patient in using wheelchair.(S)C2.6;(H)B3.2
- 19.12 Assist patient with care and use of prosthetic/orthotic devices.(S)C2.6;(H)B3.2
- 19.13 Administer back rub.(H)B3.2
- 19.14 Describe emergency procedures utilized in the clinical area(s).(H)B3.4;(LA)C3.2,4

20.0 PROVIDE PERSONAL PATIENT CARE--The student will be able to:

- 20.01 Give bed bath.
- 20.02 Assist with shower or tub bath, including the use of specialty tubs.
- 20.03 Assist patient with sink, tub, shower, or bed shampoo.
- 20.04 Shave patient.
- 20.05 Groom patient, including hair, skin, foot, and nail care.
- 20.06 Assist with and/or administer oral hygiene.
- 20.07 Assist patient with toileting.
- 20.08 Assist patient to dress.
- 20.09 Assist patient with meals.
- 20.10 Provide bowel and bladder training.
- 20.11 Give perineal care.
- 20.12 Empty urinary drainage.

21.0 PERFORM PATIENT CARE PROCEDURES--The student will be able to:

- 21.01 Demonstrate ability to accurately measure and record vital signs. (M)A1,2 (M)B1,2,4.1,4.2
- 21.02 Admit patient.
- 21.03 Transfer patient.
- 21.04 Discharge patient.
- 21.05 Make unoccupied/occupied bed.
- 21.06 Measure and record patient's height and weight.(M)B1,3,4
- 21.07 Assist patient in passive range-of-motion exercises.
- 21.08 Apply anti-embolic hose.
- 21.09 Collect, strain, and/or test routine urine specimen.
- 21.10 Collect timed urine specimen.
- 21.11 Monitor catheter drainage system. (M)B1,3,4
- 21.12 Collect clean-catch (midstream-voided) urine specimen.
- 21.13 Monitor fluid intake and output (I&O), including forcing and restricting fluids. (M)B1,3,4
- 21.14 Observe, record, and report patient's emesis. (M)B1,3,4
- 21.15 Assist patient with sitz bath.
- 21.16 Monitor and assist with care of catheters.
- 21.17 Assist with ostomy care.
- 21.18 Collect stool specimen.
- 21.19 Perform postmortem care.
- 21.20 Maintain patient-belongings list.
- 21.21 Administer prepackaged enema of five ounces or less.
- 21.22 Care for patients with nasal, gastrostomy, and/or intravenous tubes.

- 21.23 Collect sputum specimen.
- 22.0 APPLY PRINCIPLES OF NUTRITION--The student will be able to:
- 22.01 Identify nutrients and food groups. (SS)A2.8, 2.9, 2.10 (LA) A2.1
 - 22.02 Explain regional, cultural, and religious food preferences. (H)A1.9;B2.4
 - 22.03 Describe special diets. (H)A1.9;B2.4
 - 22.04 Prepare a basic food plan. (H)A1.9
 - 22.05 Check patient's diet tray for accuracy. (M)A4.1;B2.1
 - 22.06 Identify methods of maintaining fluid balance. (M)B2.1
- 23.0 PROVIDE CARE FOR GERIATRIC PATIENTS--The student will be able to:
- 23.01 Identify safety principles as related to the elderly. (H)A2.6;B1.4,5
 - 23.02 Describe general characteristics, particular needs, and problems of the elderly.
 - 23.03 Identify attitudes and living habits that promote positive mental and physical health for the elderly. (H)B1.4
 - 23.04 Distinguish between fact and fallacy about the aging process.
 - 23.05 Identify community resources and services available to the elderly.
 - 23.06 Apply Reality Orientation Techniques and Validation Therapy. (H)A1.3
 - 23.07 Provide and involve patients in diversional activities.
 - 23.08 Identify common alterations in elderly patient behavior.
 - 23.09 Provide care for patients with special needs (e.g., impaired hearing, impaired vision, immobility, impaired body functions).
 - 23.10 Recognize and respond appropriately to symptoms of common diseases (H)A1.3;A2.6;B1.2,3,4
- 24.0 APPLY THE PRINCIPLES OF INFECTION CONTROL SPECIFIC TO NURSING ASSISTING--The student will be able to:
- 24.01 Provide care for patients with infectious diseases applying the principles of "Universal (Standards) Precautions" utilized with all patients as well as special procedures required.
 - 24.02 Set up isolation unit.
 - 24.03 Follow isolation procedure with food tray, garments, and other materials.
 - 24.04 Collect specimen from patient in isolation.
- 25.0 PROVIDE BIOLOGICAL, PSYCHOLOGICAL, AND SOCIAL SUPPORT--The student will be able to:
- 25.01 Discuss family roles and their significance to health. (H)B2.3,4;B3.2,4,8;C1.1;2.2,3
 - 25.02 Respond to patient and family emotional needs. (H)B3.2,3,4

26.0 PERFORM SUPERVISED ORGANIZATIONAL FUNCTIONS, FOLLOWING THE PATIENT PLAN OF CARE--The student will be able to:

- 26.01 Organize patient-care assignments.
- 26.02 Complete assignments accurately and in a timely manner.

27.0 ASSIST WITH RESTORATIVE (REHABILITATIVE) ACTIVITIES--The student will be able to:

- 27.01 List the purposes of restorative (rehabilitation) program.
- 27.02 Assist patient with specified restorative (rehabilitation) needs.
- 27.03 Assist patients/residents to reach the optimum level of independence. (H)A1.3;2.6

28.0 PERFORM SKILLS RELATED TO THE HOSPITAL SETTING--The student will be able to:

- 28.01 Care for hospital equipment and supplies.
- 28.02 Transfer patient to stretcher.
- 28.03 Prepare hot and cold applications and assist nurse to apply them.
- 28.04 Assist patient to apply binders.
- 28.05 Care for patient in skin and skeletal traction.
- 28.06 Assist with pre-operative and post-operative patient care.
- 28.07 Reinforce dressings.
- 28.08 Practice nursing procedures from the nursing assistant module in hospital setting.

29.0 PROVIDE CARE FOR THE ADULT PATIENT--The student will be able to:

- 29.01 Insert a rectal tube.
- 29.02 Assist with physical examination.
- 29.03 Care for patients receiving oxygen therapy.
- 29.04 Change an unsterile dressing.
- 29.05 Take an apical pulse.
- 29.06 Take an apical-radial pulse.
- 29.07 Take pedal pulse.
- 29.08 Give cast care.
- 29.09 Give artificial eye/contact lens care.
- 29.10 Demonstrate understanding and knowledge of patients with common health problems. (H)A1.3,5;2.3,6;B1.2,4;B3.7

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Florida Department of Education
INTENDED OUTCOMES

Program Title: Vision Care Assisting

Secondary

Program Numbers 8417230

CIP Number 0317.070202

Grade Level 10-12, 30, 31 (The courses Health Science 1 and Health Science 2 are 9-12)

Standard Length 4 credits

Certification:

8417100 Health Science 1	ANY HEALTH OCCUP ED G
8417110 Health Science 2	ANY HEALTH OCCUP ED G
8417231 Vision Care Assisting 3	TEC OPTICS @7 G
8417232 Vision Care Assisting 4	TEC OPTICS @7 G

Facility Code: 252

Basic Skills N/A

Math

Language

Reading

MAJOR CONCEPTS/CONTENT: The four courses in this program are:

8417100 Health Science 1 (one credit)
8417110 Health Science 2 (one credit)
8417231 Vision Care Assisting 3 (one credit)
8417232 Vision Care Assisting 4 (one credit)

This program is designed to prepare students for employment at the aide level to assist opticians: dispensing and measuring (32514216), (079.364-014), lens grinders, and other trained workers in the field of optics. Simulation and clinical laboratory experiences are integrated with the didactic portion of this program.

The core of basic knowledge consists of two courses. Students must complete or be concurrently enrolled in the core courses before enrolling in a course leading to an occupational completion point. Students completing the Health Science Core will not be required to repeat the core in secondary or postsecondary. To achieve an occupational completion point the student must complete at least one program in this cluster. The two courses in the core are:

8417100 - Health Science 1 (one credit)
8417110 - Health Science 2 (one credit)

This program meets the Department of Health and HIV/AIDS education requirements and the Department of Business and Professional Regulation (DBPR) HIV/AIDS education requirements. Upon completion of this program, the instructor will provide a certificate to the student verifying that the HIV/AIDS requirements have been met.

INTENDED OUTCOMES:

OCCUPATIONAL COMPLETION POINT - DATA CODE A

VISION CARE ASSISTANT - Industry Title (01.0 - 25.0)

After completing this program students will be able to:

HEALTH SCIENCE 1 (01.0 - 05.0)

- 01.0 Discuss and describe an overview of the human body, including organization and chemical processes.
- 02.0 Use correct medical terminology relating to body structure and function.
- 03.0 Identify cells and tissues microscopically and macroscopically and relate their specialized functions.
- 04.0 Identify and discuss the structure and function of the body systems in health and disease.
- 05.0 Identify and explain factors relating to the transmission of disease.

HEALTH SCIENCE 2 (06.0 - 16.0)

- 06.0 Demonstrate knowledge of the health care delivery system and health occupations.
- 07.0 Demonstrate the ability to communicate and use interpersonal skills effectively.
- 08.0 Demonstrate legal and ethical responsibilities.
- 09.0 Demonstrate an understanding of and apply wellness and disease concepts.
- 10.0 Recognize and practice safety and security procedures.
- 11.0 Recognize and respond to emergency situations.
- 12.0 Recognize and practice infection control procedures.
- 13.0 Demonstrate computer literacy.
- 14.0 Demonstrate employability skills.
- 15.0 Demonstrate knowledge of blood borne diseases, including AIDS.
- 16.0 Apply basic math and science skills.

VISION CARE ASSISTING 3 (17.0 - 19.0)

- 17.0 Dispense optical supplies.
- 18.0 Demonstrate and perform basic skills relating to lenses.
- 19.0 Perform front desk activities.

VISION CARE ASSISTING 4 (20.0 - 25.0)

- 20.0 Perform basic refracting lane skills.
- 21.0 Demonstrate knowledge of light theories.
- 22.0 Demonstrate knowledge of basic ocular anatomy and physiology.
- 23.0 Recognize patient needs in relation to lens characteristics
- 24.0 Complete a case history.
- 25.0 Prepare patients for and assist in testing for eye disorders.

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Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417100
Course Title: Health Science 1
Course Credit: 1

The students completing this course will be able to perform the following intended outcomes and student performance standards:

- 01.0 DISCUSS AND DESCRIBE AN OVERVIEW OF THE HUMAN BODY, INCLUDING ORGANIZATION AND CHEMICAL PROCESSES--The student will be able to:
- 01.01 Define cells, tissues, organs, and systems.
 - 01.02 Identify body cavities and the organs they contain.
 - 01.03 Define the chemical processes that maintain life.(S)F1.1
- 02.0 USE CORRECT MEDICAL TERMINOLOGY RELATING TO BODY STRUCTURE AND FUNCTION--The student will be able to:
- 02.01 Use anatomical terminology to describe location of parts or areas of the body or to describe the relation of one part to another. (LA)A1.3
 - 02.02 Use correct medical terminology, including prefixes and suffixes, to indicate anatomical structures. (LA)A1.3
- 03.0 IDENTIFY CELLS AND TISSUES MICROSCOPICALLY AND MACROSCOPICALLY AND RELATE THEIR SPECIALIZED FUNCTIONS--The student will be able to:
- 03.01 Describe cell structure and function in healthy tissue. (S)F1.5
 - 03.02 Describe cell structure and function in diseased tissue. (S)F1.5
 - 03.03 List the four main types of tissue.
 - 03.04 Define the location and function of tissues.
- 04.0 IDENTIFY AND DISCUSS THE STRUCTURE AND FUNCTION OF THE BODY SYSTEMS IN RELATION TO HEALTH AND DISEASE--The student will be able to:
- 04.01 Describe the structure and function of each body system. (S)F1.2
 - 04.02 Identify common diseases in each body system.
 - 04.03 Identify health Science related to each system.
 - 04.03 Perform skills related to specific body systems.
- 05.0 IDENTIFY AND EXPLAIN FACTORS RELATING TO THE TRANSMISSION OF DISEASE--The student will be able to:
- 05.01 List and explain direct causes of disease.
 - 05.02 List and explain indirect causes of disease.
 - 05.03 Explain the chain of transmission. (LA)C3.3
 - 05.04 Discuss the immune system.

- 05.05 Define and explain homeostasis.
- 05.06 List and discuss the body's defense mechanisms.
- 05.07 Describe DNA and its role in human heredity. (S)F2.2
- 05.08 Describe the role of human genetics in relation to genetic diseases.
- 05.18 Identify current issues related to genetic research.

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417110
Course Title: Health Science 2
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 06.0 DEMONSTRATE KNOWLEDGE OF THE HEALTH CARE DELIVERY SYSTEM AND HEALTH OCCUPATIONS--The student will be able to:
- 06.01 Identify the basic components of the health care delivery system. (S)H3 (LA)A1.4 (H)A1.7, C1.2
 - 06.02 Describe the various types of health care providers and the range of services available including resources to victims of domestic violence.(S)H3 (LA)A1.3 (H)A1.5, 2.3,2.4,2.2 B2.2
 - 06.03 Describe the composition and functions of a health care team. (LA)A1.3 (H)C2.6,1.2
 - 06.04 Identify the general roles and responsibilities of the individual members of the health care team. (LA)A1.1 (H)B2.6
 - 06.05 Develop a basic understanding of human needs throughout the life-span. (LA)A1.4 (H)A1.3
 - 06.06 Explain the importance of maintaining professional competence through continuing education. (S)H,ALL, (LA)A.1.4 (SS)A2.1
 - 06.07 Describe trends affecting the delivery system of health care. (S)H3 (LA)A1.2 (H)A1.8, 2.1
- 07.0 DEMONSTRATE THE ABILITY TO COMMUNICATE AND USE INTERPERSONAL SKILLS EFFECTIVELY--The student will be able to:
- 07.01 Develop basic listening skills. (LA)C1.1
 - 07.02 Develop basic observational skills and related documentation strategies in written and oral form. (LA)C1.2 (H)C2.1
 - 07.03 Identify characteristics of successful and unsuccessful communication including barriers. (LA)C1.3, 1.4, (H)B3.2, 3.3, 3.4, 3.5, (H)C2.2, 2.3.
 - 07.04 Respond to verbal and non-verbal cues. (LA)C1.3, 1.4 (H)B3.1
 - 07.05 Compose written communication using correct spelling, grammar, and format. (LA)B1.1, 1.2, 1.3
 - 07.06 Use appropriate medical terminology and abbreviations. (LA)B1.3
 - 07.07 Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships. (LA)C1.3 (H)B3.2, 3.3, 3.4 C2.5
 - 07.08 Recognize the importance of patient/client education regarding health care. (H)B3.4 C2.4
 - 07.09 Adapt communication skills to varied levels of understanding and cultural orientation. (LA)C1.4 (SS)A1.2 (H)B2.4, 3.4, 3.6

- 07.10 Demonstrate telephone usage including taking messages.
(LA)C1.1
- 07.11 Demonstrate ability to give and follow directions. (LA)C1.1
- 07.12 Distinguish between factual reports and personal opinion.
(LA)C2.1

- 08.0 DEMONSTRATE LEGAL AND ETHICAL RESPONSIBILITIES--The student will be able to:
 - 08.01 Discuss the legal framework of the health care occupations.
(LA)D1.1, 1.2, 1.3
 - 08.02 Explain the medical liability of health care workers.
(LA)D1.1, 1.2, 1.3
 - 08.03 Explain the patients' "Bill of Rights." (LA)D1.1, 1.2, 1.3
 - 08.04 Describe a Code of Ethics consistent with the health care occupation. (LA)D1.1, 1.2, 1.3
 - 08.05 Discuss the importance of maintaining confidentiality of information, including computer information. (LA)D1.2
 - 08.06 Recognize the limits of authority and responsibility of health care workers. (LA)D2.6
 - 08.07 Recognize and report illegal and unethical practices of health care workers. (LA)D2.6
 - 08.08 Recognize and report abuse and neglect. (LA)D2.6
 - 08.09 Recognize sexual harassment and domestic violence. (LA)D2.6

- 09.0 DEMONSTRATE AN UNDERSTANDING OF AND APPLY WELLNESS AND DISEASE CONCEPTS--The student will be able to:
 - 09.01 Develop a basic understanding of the structure and function of the body systems. (S)F1.2 C2.6 (LA)A2.1
 - 09.02 Identify personal health practices and environmental factors which affect optimal function of each of the major body systems. (S)G2.6, D1.3, 1.4 (SS)A3.5 (LA)A2.1 (H)A1.4, 1.1 B1.1, 2.3
 - 09.03 Identify psychological reactions to illness including defense mechanisms. (LA)A2.1
 - 09.04 Recognize the steps in the grief process. (LA)2.1 (H)B.3.8
 - 09.05 Explain basic concepts of positive self image, wellness and stress. (LA)C1.3 (H)A1.9, 1.5
 - 09.06 Develop a wellness and stress control plan that can be used in personal and professional life. (S)D2.1 (LA)B1.2, 1.3 (H)A1.2 (H)B1.2, 1.3, 1.4 C1.4, 1.5, 1.6
 - 09.07 Explain the nutrition pyramid. (LA)C1.3 (H)A1.5, 1.9

- 10.0 RECOGNIZE AND PRACTICE SAFETY AND SECURITY PROCEDURES--The student will be able to:
 - 10.01 Demonstrate the safe use of medical equipment. (S)B1.1)
 - 10.02 Recognize and report safety hazards. (LA)B2.1
 - 10.03 Identify and practice security procedures for medical supplies and equipment.
 - 10.04 Demonstrate proper body mechanics. (S)C1&2
 - 10.05 Demonstrate the procedure for properly identifying patients.

- 10.06 Demonstrate procedures for the safe transport and transfer of patients. (S)C1&2
- 10.07 Describe fire, safety, disaster and evacuation procedures. (S)C1&2 (LA)B2.1

- 11.0 RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS--The student will be able to:
 - 11.01 Monitor and record vital signs. (S)B1-3 (LA)B2.1
 - 11.02 Describe legal parameters relating to the administration of emergency care. (LA)C3.1
 - 11.03 Obtain and maintain BLS for Healthcare Providers or higher.
 - 11.04 Demonstrate basic understanding of first aid and emergency care. (H)B1.5, 3.7 A2.6
 - 11.05 Recognize adverse drug related emergencies and take appropriate first aid action. (H)B3.7, C.5

- 12.0 RECOGNIZE AND PRACTICE INFECTION CONTROL PROCEDURES--The student will be able to:
 - 12.01 Demonstrate knowledge of medical asepsis and practice procedures such as hand-washing and isolation.
 - 12.02 Demonstrate knowledge of surgical asepsis. (H)B1.1,2,3,4,5
 - 12.03 Describe how to dispose correctly of biohazardous materials, according to appropriate government guidelines such as OSHA. (LA)C3.2

- 13.0 DEMONSTRATE COMPUTER LITERACY--The student will be able to:
 - 13.01 Define terms and demonstrate basic computer skills. (LA)C3.2
 - 13.11 Describe the uses of computers in health care. (LA)C3.2 (H)B2.1

- 14.0 DEMONSTRATE EMPLOYABILITY SKILLS--The student will be able to:
 - 14.01 Conduct a job search. (M)E1.1, (LA)A1.1,2,3
 - 14.02 Secure information about a job. (LA)A1.1,2,3, B2.4
 - 14.03 Identify documents that may be required when applying for a job. (LA)A1.1,2,3, B1.1, 1.3
 - 14.04 Complete a job application form correctly. (LA)A1.2,3, B1.3
 - 14.05 Demonstrate competence in job interview techniques. (LA)C1,2,3
 - 14.06 Identify or demonstrate appropriate responses to criticism from employer, supervisor, or other persons. (H)B3.4,5, C2.1
 - 14.07 Identify acceptable work habits. (LA)B2.2,4
 - 14.08 Demonstrate knowledge of how to make job changes appropriately. (LA)B2.2,4
 - 14.09 Demonstrate desirable health habits. (H)A1.3,4,5, A2.1,6, B1.1,2,5
 - 14.10 Recognize appropriate affective/professional behavior. (H)A2.6
 - 14.11 Write an appropriate resume. (LA)B1.1, 1.3, B2.2,4

15.0 DEMONSTRATE KNOWLEDGE OF BLOOD BORNE DISEASES, INCLUDING AIDS--The student will be able to:

- 15.01 Distinguish between fact and fallacy about the transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B. (LA)A2.7
- 15.02 Identify community resources and services available to the individuals with diseases caused by blood borne pathogens. (S)G.2.6 (LA)A2.7
- 15.03 Identify "at risk" behaviors which promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases. (LA)A2.6, (H)B3.7, C1.1
- 15.04 Apply infection control techniques designed to prevent the spread of diseases to the care of all patients following Centers for Disease Control (CDC) guidelines. (H)B3.7
- 15.05 Demonstrate knowledge of the legal aspects of AIDS, including testing. (H)B1.2

16.0 APPLY BASIC MATH AND SCIENCE SKILLS--The student will be able to:

- 16.01 Draw, read, and report on graphs, charts and tables. (S)H2.3, (LA)B2.1, 2.2 (M)E1
- 16.02 Measure time, temperature, distance, capacity, and mass/weight. (S)H1,2,3 (LA)B2.1,2.2 (M)B3
- 16.03 Make and use measurements in both traditional and metric units. (S)H1.1,1.2. (LA)B2.1, 2.2 (M)B3
- 16.04 Make estimates and approximations and judge the reasonableness of the result.(S)H1,2,3 (LA)B2.1,2.2 (M)A4, B2, B4
- 16.05 Convert from regular to 24 hour time. (S)H1,2,3 (LA)B2.1,2,2
- 16.06 Demonstrate ability to evaluate and draw conclusions. (M)E2, 3
- 16.07 Organize and communicate the results obtained by observation and experimentation. (H)1, (LA)B2.4
- 16.08 Ask appropriate scientific questions and recognize what is involved in experimental approaches to the solution of such questions. (M)E1, 2 (LA)B2.2
- 16.09 Calculate ratios. (LA) B1.3 (M) A1,2,3

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Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417231
Course Title: Vision Care Assisting 3
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

17.0 DISPENSE OPTICAL SUPPLIES--The student will be able to:

- 17.01 Select frames according to prescription suitability, color, style and size.(H)A2.3, 2.6, C2.4, (M)A1.2, (L)C3.3
- 17.02 Fill out Rx card completely and correctly.(M)A1,1.1, 1.4
- 17.03 Take proper patient measurements.(M)A2.2, 3.1, 3.3, B2.1, 3.1, 4.1, 4.2
- 17.04 Dispense eyewear.(H)C2.4, (L)C3.3
- 17.05 Adjust frames to patient's face.(L)A1.1, 1.2, 1.3
- 17.06 Manage frame-boards.(M)E1.3, (L)A2.7, 2.8, B2.2
- 17.07 Dispense contact lenses.(H)A1.7
- 17.08 Describe types and care systems for contact lenses.(H)A1.1, 2.1
- 17.09 Demonstrate insertion and removal techniques of contact lenses.(H)A1.1, 2.6
- 17.10 Use keratometer.(L)A1.1, 1.2, 1.3
- 17.11 Demonstrate knowledge of frame repair.(L)A1.1, 1.2, 1.3

18.0 DEMONSTRATE AND PERFORM BASIC SKILLS RELATING TO LENSES--The student will be able to:

- 18.01 Edge single vision and multifocal lenses into a frame.(M)A1.2, 1.4, B3.2
- 18.02 Construct patterns.(M)C1.1, 3.1, 3.2
- 18.03 Use lensometer.(M)A1.1, 1.2, 1.4, 2.2, 3.1, B3.2
- 18.04 Layout lenses in preparation for edging.(M)A1.2, 1.4, B3.1, 3.2
- 18.05 Operate edger and hand beveler.(M)B3.1, 3.2
- 18.06 Perform special mountings-drill and groove procedures.(L)A1.1, 1.2, 1.3
- 18.07 Demonstrate knowledge of lens tinting.(L)A1.1, 1.2, 1.3
- 18.08 Check finished product against ANSI standards.(H)A1.7, (M)A1.4, B3.2

19.0 PERFORM OPTOMETRIC OFFICE ACTIVITIES--The student will be able to:

- 19.01 Perform front desk activities.(H)B3.1, 3.2, 3.3, 3.4, 3.5, C2.2, (L)C3.1, 3.2, D1.2
- 19.02 Schedule and confirm appointments.(H)A2.1, 2.3, 2.5
- 19.03 Describe the pegboard system and basic accounting system.(M)A2.2, (L)B2.2

19.04 Perform insurance claim procedures. (claims processing)(L)B2.2, 2.4

Florida Department of Education
STUDENT PERFORMANCE STANDARDS

Course Number: 8417232
Course Title: Vision Care Assisting 4
Course Credit: 1

The student completing this course will be able to perform the following intended outcomes and student performance standards:

- 20.0 EDGE, TINT AND INSPECT A PAIR OF GLASS OR PLASTIC LENSES AND INSERT INTO A FRAME--The student will be able to:
- 20.01 Edge and bevel a lens.(M)A1.2, 1.4, B3.1, 3.2
 - 20.02 Heat treat a lens.(M)A2.2, 3.2, B3.1
 - 20.03 Check a lens for safety.(L)A1.1, 1.2, 1.3
 - 20.04 Insert lens into a frame.(L)A1.1, 1.2, 1.3
 - 20.05 Tint and coat various lenses.(M)A4.1
 - 20.06 Inspect completed spectacles.(H)A1.7, (M)A1.4, B3.1, 3.2
- 21.0 DEMONSTRATE KNOWLEDGE OF FRAME SELECTION TECHNIQUES USED IN A DISPENSING OFFICE SETTING--The student will be able to:
- 21.01 Identify frame parts and materials.(L)A1.1, 1.2, 1.3
 - 21.02 Demonstrate knowledge of frame measurement.(M)A1.2, 1.4
 - 21.03 Demonstrate pupillary distance measurement.(M)A1.2, 1.4, B3.2
 - 21.04 Demonstrate frame selection considering customer and frame characteristics.(L)A1.1, 1.2, 1.3
- 22.0 DEMONSTRATE KNOWLEDGE OF FRAME ADJUSTMENT AND ALIGNMENT--The student will be able to:
- 22.01 Select correct frame and bridge size.(H)C2.4
 - 22.02 Verify prescription information.(H)A1.7, (M)A1.2, 1.4, B3.1, 3.2
 - 22.03 Perform frame adjustment and alignment.(L)A1.1, 1.2, 1.3
 - 22.04 Perform frame repairs.(L)A1.1, 1.2, 1.3
- 23.0 RECOGNIZE PATIENT NEEDS IN RELATION TO LENS CHARACTERISTICS--The student will be able to:
- 23.01 Identify the effects of types of lights on glass lenses.(M)C1.1, 3.1
 - 23.02 Describe the effects of types of tint on the eye.(L)A1.1, 1.2, 1.3
 - 23.03 Identify types of glass coatings.(L)A1.1, 1.2, 1.3
 - 23.23 Identify the effects of the optical prism on lenses.(M)A.2.2, 3.1, 3.3
 - 23.05 Define prism imbalance, vertical imbalance and full imbalance.(M)A1.4, 2.2, 3.3, E1.3
 - 23.06 Identify occupational eyewear and special purpose frames.(H)A1.7

24.0 COMPLETE A CASE HISTORY--The student will be able to:

24.01 Record the patient's chief complaints.(H)A1.1, (L)A1.3, B2.1, 2.2, 2.3, C1.1

24.02 Record the patient's medical and ocular history.(H)A1.1, (L)A1.3, B2.1, 2.2, 2.3, C1.1

24.03 Record the family's medical and ocular history.(H)A1.1, (L)A1.3, B2.1, 2.2, 2.3, C1.1

24.04 Record the social history.(H)A1.5, (L)A1.3, B2.1, 2.2, 2.3, C1.1

25.0 PREPARE PATIENTS FOR AND ASSIST IN TESTING FOR EYE DISORDERS--The student will be able to:

25.01 Define myopia, hyperopia, astigmatism, and ametropia.(L)A1.3

25.02 Perform visual acuity screening and record results. (L)A2.8, B2.2

25.03 Demonstrate knowledge of selected instruments used in determining specific eye disorders. (M)B3.2, (L)A1.3, 2.7, 2.8