

MISSISSIPPI
CURRICULUM FRAMEWORK
FOR
DENTAL HYGIENE TECHNOLOGY
(Program CIP: 51.0602 – Dental Hygienist)

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FOREWORD

As the world economy continues to evolve, businesses and industries must adopt new practices and processes in order to survive. Quality and cost control, work teams and participatory management, and an infusion of technology are transforming the way people work and do business. Employees are now expected to read, write, and communicate effectively; think creatively, solve problems, and make decisions; and interact with each other and the technologies in the workplace. Vocational-technical programs must also adopt these practices in order to provide graduates who can enter and advance in the changing work world.

The curriculum framework in this document reflects these changes in the workplace and a number of other factors that impact on local vocational-technical programs. Federal and state legislation calls for articulation between high school and community college programs, integration of academic and vocational skills, and the development of sequential courses of study that provide students with the optimum educational path for achieving successful employment. National skills standards, developed by industry groups and sponsored by the U.S. Department of Education and Labor, provide vocational educators with the expectations of employers across the United States. All of these factors are reflected in the framework found in this document.

Each postsecondary program of instruction consists of a program description and a suggested sequence of courses which focus on the development of occupational competencies. Each vocational-technical course in this sequence has been written using a common format which includes the following components:

- Course Name – A common name that will be used by all community/junior colleges in reporting students.
- Course Abbreviation – A common abbreviation that will be used by all community/junior colleges in reporting students.
- Classification – Courses may be classified as:
 - Vocational-technical core – A required vocational-technical course for all students.
 - Vocational-technical elective – An elective vocational-technical course.
 - Related academic course – An academic course which provides academic skills and knowledge directly related to the program area.
 - Academic core – An academic course which is required as part of the requirements for an Associate degree.
- Description – A short narrative which includes the major purpose(s) of the course and the recommended number of hours of lecture and laboratory activities to be conducted each week during a regular semester.
- Prerequisites – A listing of any courses that must be taken prior to or on enrollment in the course.

- Corequisites – A listing of courses that may be taken while enrolled in the course.
- Competencies and Suggested Objectives – A listing of the competencies (major concepts and performances) and of the suggested student objectives that will enable students to demonstrate mastery of these competencies.

The following guidelines were used in developing the program(s) in this document and should be considered in compiling and revising course syllabi and daily lesson plans at the local level:

- The content of the courses in this document reflects approximately 75 percent of the time allocated to each course. The remaining 25 percent of each course should be developed at the local district level and may reflect:
 - Additional competencies and objectives within the course related to topics not found in the State framework, including activities related to specific needs of industries in the community college district.
 - Activities which develop a higher level of mastery on the existing competencies and suggested objectives.
 - Activities and instruction related to new technologies and concepts that were not prevalent at the time the current framework was developed/revised.
 - Activities which implement components of the Mississippi Tech Prep initiative, including integration of academic and vocational-technical skills and coursework, school-to-work transition activities, and articulation of secondary and postsecondary vocational-technical programs.
 - Individualized learning activities, including worksite learning activities, to better prepare individuals in the courses for their chosen occupational area.

- Sequencing of the course within a program is left to the discretion of the local district. Naturally, foundation courses related to topics such as safety, tool and equipment usage, and other fundamental skills should be taught first. Other courses related to specific skill areas and related academics, however, may be sequenced to take advantage of seasonal and climatic conditions, resources located outside of the school, and other factors.

- Programs that offer an Associate of Applied Science degree must include a minimum 15 semester credit hour academic core. Specific courses to be taken within this core are to be determined by the local district. Minimum academic core courses are as follows:

• 3 semester credit hours	Math/Science Elective
• 3 semester credit hours	Written Communications Elective
• 3 semester credit hours	Oral Communications Elective
• 3 semester credit hours	Humanities/Fine Arts Elective
• 3 semester credit hours	Social/Behavioral Science Elective

It is recommended that courses in the academic core be spaced out over the entire length of the program, so that students complete some academic and vocational-technical courses each semester. Each community/junior college has the discretion to select the actual courses that are required to meet this academic core requirement.

- In instances where secondary programs are directly related to community and junior college programs, competencies and suggested objectives from the high school programs are listed as Baseline Competencies. These competencies and objectives reflect skills and knowledge that are directly related to the community and junior college vocational-technical program. In adopting the curriculum framework, each community and junior college is asked to give assurances that:
 - Students who can demonstrate mastery of the Baseline Competencies do not receive duplicate instruction, and
 - Students who cannot demonstrate mastery of this content will be given the opportunity to do so.
- The roles of the Baseline Competencies are to:
 - Assist community/junior college personnel in developing articulation Agreements with high schools, and
 - Ensure that all community and junior college courses provide a higher level of instruction than their secondary counterparts.
- The Baseline Competencies may be taught as special “Introduction” courses for 3-6 semester hours of institutional credit which will not count toward Associate degree requirements. Community and junior colleges may choose to integrate the Baseline Competencies into ongoing courses in lieu of offering the “Introduction” courses or may offer the competencies through special projects or individualized instruction methods.
- Technical elective courses have been included to allow community colleges and students to customize programs to meet the needs of industries and employers in their area.

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May 21, 2004

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PROGRAM DESCRIPTION

DENTAL HYGIENE TECHNOLOGY

The Dental Hygiene Technology Program is a general education and clinical dental hygiene experience to prepare one for a career in the dental hygiene profession. All phases of dental hygiene education are covered and practiced by clinical experience. CPR-Health Care Provider is a prerequisite for the program. The curriculum requires a minimum of 85 semester hours of study. The program requires 50 hours of dental hygiene courses, 32-33 academic hours leading to an Associate Degree in Dental Hygiene, and an additional 3 hour elective. A graduate will be eligible to take the examination of the National Board of Dental Examiners as well as individual state board examinations for dental hygiene.

The vocational-technical courses in the following list are required in the Dental Hygiene Technology curriculum:

- 5 semester credit hours (sch) Fundamentals of Dental Hygiene
- 4sch Dental Radiology
- 5 sch Clinical Dental Hygiene I
- 2 sch Dental Anatomy
- 2 sch Head and Neck Anatomy
- 3 sch Dental Hygiene Materials
- 2 sch Oral Histology and Embryology
- 5 sch Clinical Dental Hygiene II
- 2 sch Periodontics
- 2 sch Dental Pharmacology
- 6 sch Clinical Dental Hygiene III
- 3 sch Community Dental Health
- 2 sch Dental Ethics/Law
- 1 sch Dental Hygiene Seminar I
- 1 sch Dental Hygiene Seminar II
- 1 sch Dental Hygiene Seminar III
- 1 sch Dental Hygiene Seminar IV
- 3 sch General/Oral Pathology

The following academic courses are required in the Dental Hygiene Technology curriculum:

- 4 sch Anatomy and Physiology I (BIO 2514)
- 4 sch Anatomy and Physiology II (BIO 2524)
- 3 sch Math/Science Elective
- 3 sch Written Communications Elective
- 3-4 sch Microbiology (BIO 2923 or 2924)
- 3 sch Social/Behavioral Science Elective*
- 3 sch Humanities/Fine Arts Elective
- 3 sch Oral Communications Elective
- 3 sch Principles of Nutrition or Nutrition (HEC 1233 or 1253)

3 sch General Psychology I (PSY 1513)

* Introduction to Sociology I (SOC 2113) is required by national standards.

An additional 3 hour elective should be selected from the following list:

English Composition II (ENG 1113)

Introduction to Chemistry (CHE 1113)

General Chemistry I (CHE 1213)

General Chemistry Laboratory I (CHE 1211)

Introduction to Computer Concepts (CSC 1113)

Fundamentals of Microcomputer Application (CPT 1113)

Industry standards are taken from the Commission on Dental Accreditation's Accreditation Standards for Dental Hygiene Education Programs (1998).

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DENTAL HYGIENE TECHNOLOGY
 SUGGESTED COURSE SEQUENCE

Baseline Competencies for Dental Hygiene Technology**

FIRST YEAR

5 sch	Fundamentals of Dental Hygiene (DHT 1115)	4 sch	Anatomy and Physiology II (BIO 2524)
2 sch	Dental Anatomy (DHT 1212)	5 sch	Clinical Dental Hygiene I (DHT 1415)
4 sch	Dental Radiology (DHT 1314)	3-4 sch	Microbiology (BIO 2923 or 2924)
1 sch	Dental Hygiene Seminar I (DHT 1911)	2 sch	Periodontics (DHT 1512)
4 sch	Anatomy and Physiology I (BIO 2514)	1 sch	Dental Hygiene Seminar II (DHT 1921)
3 sch	Math/Science Elective	2 sch	Oral Histology and Embryology (DHT 1232)
<hr/>		2 sch	Head and Neck Anatomy (DHT 1222)
19 sch		<hr/>	
		19-20 sch	

SUMMER TERM

3 sch	Written Communications Elective
3 sch	Social/Behavior Science Elective ***
3 sch	General Psychology I (PSY 1513)
3 sch	Humanities/Fine Arts Elective
<hr/>	
12 sch	

SECOND YEAR

5 sch	Clinical Dental Hygiene II (DHT 2425)	6 sch	Clinical Dental Hygiene III (DHT 2436)
3 sch	Dental Hygiene Materials (DHT 2613)	3 sch	Community Dental Health (DHT 2813)
3 sch	General/Oral Pathology (DHT 2233)	2 sch	Dental Ethics/Law (DHT 2922)
3 sch	Principles of Nutrition (HEC 1233) or Nutrition (HEC 1253)	3 sch	Oral Communications Elective
2 sch	Dental Pharmacology (DHT 2712)	1 sch	Dental Hygiene Seminar IV (DHT 2941)
1 sch	Dental Hygiene Seminar III (DHT 2931)	3 sch	Elective
		<hr/>	
		18 sch	
<hr/>			
17 sch			

* Students who lack entry level skills in math, English, science, etc. will be provided related studies.

** Baseline competencies are taken from the high school Allied Health program. Students who can document mastery of these competencies should not receive duplicate instruction. Students who cannot demonstrate mastery will be required to do so.

*** Introduction to Sociology I (SOC 2113) is required by national standards.

APPROVED ELECTIVES FOR DENTAL HYGIENE TECHNOLOGY:

- English Composition II (ENG 1123)
- Introduction to Chemistry (CHE 1113)
- General Chemistry I (CHE 1213)
- General Chemistry Laboratory I (CHE 1211)
- Introduction to Computer Concepts (CSC 1113)
- Fundamentals of Microcomputer Applications (CPT 1113)

SECTION I:
CURRICULUM GUIDE
FOR
DENTAL HYGIENE TECHNOLOGY

May 21, 2004

DENTAL HYGIENE TECHNOLOGY COURSES

Course Name: Fundamentals of Dental Hygiene

Course Abbreviation: DHT 1115

Classification: Vocational-Technical Core

Description: This course will provide the dental hygiene student with the fundamental knowledge and skills necessary for interaction with clients. The lecture portion will focus on the history, philosophy, and theories relevant to the profession of dental hygiene. Lecture highlights will include discussion of the latest health care settings, trends, and approaches to comprehensive care. The preclinical portion will provide the student with opportunities for the development of psychomotor skills and opportunities for interaction with clients, which will provide emphasis on trust, care, and responsibility as part of becoming a professional. (5 sch: 2 hr. lecture, 6 hr. lab)

Prerequisite: None

Competencies and Suggested Objectives:

1. Discuss the history, philosophy, and theories relevant to the dental hygiene profession.
 - a. Define, in writing and through conversation, medical and dental terminology.
 - b. Apply professional practices/behaviors and utilize the ethics of the profession of dental hygiene.
 - c. Demonstrate knowledge concerning the historical movement that precipitated the profession of dental hygiene.
 - d. Assess the need for procedures involved in maintaining, cleaning, and operating dental equipment.
 - e. Explain the rationale behind operator and office aseptic techniques.
 - f. Analyze the need for examination and scaling instruments.
 - g. Explain the rationale behind manual and motor-driven polishing procedures.
 - h. Assess the rationale behind and importance of operator expertise in answering client questions.
2. Discuss the issues relevant to establishing trust, care, and responsibility with clients.
 - a. Apply professional behaviors that promote respect for both the health care professional and client.
 - b. Explain what can be learned of the client's story or dialogue history.
 - c. Assess the latest health care settings, trends, and approaches of the dental hygiene profession.
3. Develop psychomotor skills necessary for the delivery of dental hygiene services.
 - a. Demonstrate the ability to operate the dental chair and other operatory equipment.

- b. Demonstrate the ability to position the patient and self to obtain maximum visibility, accessibility, and comfort.
 - c. Maintain the clinical equipment used in the dental hygiene clinic.
 - d. Demonstrate the procedure to sterilize and disinfect specific clinical materials, equipment, and instruments.
 - e. Perform an assessment of vital signs on a patient.
 - f. Access intraoral and extraoral conditions using palpation and visual detections for abnormalities.
 - g. Document intraoral and extraoral clinical manifestations on charts.
 - h. Discuss emergency procedures given specific emergency situations.
 - i. Formulate an appropriate, sequential Dental Hygiene Treatment Plan for individuals with specific needs based on the results of data gathered during assessment procedures.
 - j. Demonstrate use of examination and scaling instruments.
 - k. Practice manual and motor-driven polishing procedures.
4. Recognize the basic etiology of dental disease, related treatment, and preventive measures.
- a. Explain basic constituents and the appearance of plaque and dental calculus, and its effect on the dental health of the client.
 - b. Identify types, causes, and possibilities for removal of specific stains and accretions.
 - c. Apply the concept of selective polishing procedures for all clients.
 - d. Apply procedures necessary for the dental prophylaxis polishing techniques (materials, methods, and equipment).
 - e. Counsel patients on available sources of fluoride for use as a dental disease preventive.
 - f. Demonstrate all topical fluoride techniques.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M4 Explore the concepts of measurement.
- M5 Explore the geometry of one-, two-, and three-dimensions.
- S1 Explain the Anatomy and Physiology of the human body.

- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP5 Selects, applies, and maintains/troubleshoots technology.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.
- WP8 Personal Qualities: Practices work ethics related to individual responsibility, integrity, honesty, and personal management.

National Educational Technology Standards for Students

- T1 Basic operations and concepts
- T2 Social, ethical, and human issues
- T3 Technology productivity tools
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH1 General education content must include oral and written communications, psychology, and sociology.
- DH2 Biomedical science content must include content in anatomy, physiology, chemistry, biochemistry, microbiology, immunology, general pathology, nutrition, and pharmacology.
- DH3 Dental sciences content must include:
 - DH3A tooth morphology;
 - DH3B head, neck and oral anatomy;
 - DH3C oral embryology and histology;

- DH3D oral pathology;
- DH3E radiography;
- DH3F periodontology;
- DH3G pain management; and
- DH3H dental materials.
- DH4 Dental hygiene science content must include:
 - DH4A oral health education and preventive counseling;
 - DH4B health promotion;
 - DH4C patient management;
 - DH4D clinical dental hygiene;
 - DH4E provision of services for and management of patients with special needs;
 - DH4F community dental/oral health;
 - DH4G medical and dental emergencies including basic life support;
 - DH4H legal and ethical aspects of dental hygiene practice;
 - DH4I infection and hazard control management; and
 - DH4J the provision of oral health care services to patients with blood borne infectious diseases.

Course Name: Dental Anatomy

Course Abbreviation: DHT 1212

Classification: Vocational-Technical Core

Description: A study of the morphological characteristics of the teeth and supporting structures. (2 sch: 2 hr. lecture)

Prerequisites: None

Competencies and Suggested Objectives:

1. Explain dentition.
 - a. Describe the dentition.
 - b. Describe the physiological form and function of the teeth.
 - c. Differentiate between normal occlusion and malocclusion in relation to intercusping and interdigitation during both centric relationships and excursions of the mandible.
 - d. Identify the individual tooth, deciduous and permanent, in a clinical environment by identifying natural specimens in laboratory exercises.
2. Explain related structures.
 - a. Describe related structures of the dentition with correct terminology and nomenclature.
 - b. Utilize basic knowledge of tooth tissues, the exfoliation and eruption of teeth, tooth contact and alignment in the arch, and tooth relationship to the supporting structures.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C4 Access, organize, and evaluate information.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- S1 Explain the Anatomy and Physiology of the human body.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.

WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.

Standards Based on the Commission on Dental Accreditation

DH3A Dental sciences content must include tooth morphology.

Course Name: Head and Neck Anatomy

Course Abbreviation: DHT 1222

Classification: Vocational-Technical Core

Description: A detailed study of skeletal, muscular, vascular, and neural features of the face, head, and neck. (2 sch: 2 hr. lecture)

Prerequisites: None

Competencies and Suggested Objectives:

1. Explain the skeletal features of the face, head, and neck.
 - a. Identify, by their position and relationship to one another, the bones which make up the head, spine, face, and neck.
 - b. Identify the sutures, openings, foramina, and canals relating to the bones that make up the head, spine, face, and neck.
2. Explain the muscular, vascular, and neural features of the face, head, and neck.
 - a. Identify the location and actions of the muscles of mastication, the hyoid muscles, and the sternocleidomastoid muscles.
 - b. Trace the blood supply to and from structures in the head and neck, the nerve supply, and the lymphatic drainage from these structures.
 - c. Identify the structures relating to the temporomandibular joint, the salivary system, the nasal cavity, and the paranasal sinuses.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C4 Access, organize, and evaluate information.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- S1 Explain the Anatomy and Physiology of the human body.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.

WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

Standards Based on the Commission on Dental Accreditation

DH3B Dental sciences content must include head, neck and oral anatomy.

Course Name: Oral Histology and Embryology

Course Abbreviation: DHT 1232

Classification: Vocational-Technical Core

Description: The microscopic structure and development of types of cells, tissues, and organs of the human body. Also given is a survey of the elements of embryology emphasizing the area of the head and neck, as related to the development of the dental arches, salivary glands, buccal mucosa, pharynx, and tongue. (2 sch: 2 hr. lecture)

Pre/Corequisites: Dental Anatomy (DHT 1212) and Head and Neck Anatomy (DHT 1222)

Competencies and Suggested Objectives:

1. Describe the microscopic structure and development of types of cells, tissues, and organs of the human body.
 - a. Identify microscopically the components of cells which make up the following four primary tissues:
 1. Epithelium
 2. Connective tissue
 3. Muscle
 4. Nerve tissue
 - b. Discuss microscopic components of cells which make up the four primary tissues.
2. Discuss the elements of embryology emphasizing the area of the head and neck.
 - a. Identify histologically the embryonic development and formation of the following tissues of the oral cavity:
 1. Oral mucosa
 2. Bone and alveolar process
 3. The teeth
 4. The periodontal junction
 5. The dentogingival junction
 6. The periodontium
 7. The tongue
 8. The salivary glands
 - b. Identify the various anomalies of the oral cavity occurring during the formation and development of related tissues.

Standards

Related Academic Topics

- C1 Interpret written material.
C2 Interpret visual materials (maps, charts, graphs, tables, etc.).

- C4 Access, organize, and evaluate information.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- S1 Explain the Anatomy and Physiology of the human body.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

Standards Based on the Commission on Dental Accreditation

DH3C Dental sciences content must include oral embryology and histology.

Course Name: Dental Radiology

Course Abbreviation: DHT 1314

Classification: Vocational-Technical Core

Description: This course involves a broad scope of study of radiology and its use by the dentist as a diagnostic aid. Also covered are techniques for making radiographs with safety for hygienist and patient, the processing and mounting of exposed film and their interpretation, and study of anatomical landmarks evident in periapical films. (4 sch: 3 hr. lecture, 2 hr. lab)

Prerequisites: None

Competencies and Suggested Objectives:

1. Explain the theory and scope of radiology as related to dental hygiene.
 - a. Identify landmarks of the skull, maxilla, and mandible that are significant to the correct interpretation of dental radiographs.
 - b. Discuss scientific principles related to the production of radiographs.
2. Apply the theory and scope of radiology as related to dental hygiene.
 - a. Produce radiographic exposures according to stated criteria in regard to safety to both operator and patient, including the use of film holders.
 - b. Prepare radiographs that are of satisfactory diagnostic quality including periapical (adult and pedo), bitewing, and occlusal.
 - c. Utilize extraoral radiographical techniques.
 - d. Observe, interpret, and evaluate radiographs in regard to the normal and abnormal.
 - e. Use and evaluate manual and automatic processors.
 - f. Understand and demonstrate correct techniques of film duplication.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C4 Access, organize, and evaluate information.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M4 Explore the concepts of measurement.
- S1 Explain the Anatomy and Physiology of the human body.

- S6 Explore the principles and theories related to motion, mechanics, electricity, magnetism, light energy, thermal energy, wave energy, and nuclear physics.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.

National Educational Technology Standards for Students

- T1 Basic operations and concepts
- T2 Social, ethical, and human issues

Standards Based on the Commission on Dental Accreditation

DH3E Dental sciences content must include radiography.

Course Name: Clinical Dental Hygiene I

Course Abbreviation: DHT 1415

Classification: Vocational-Technical Core

Description: The student will apply the principles and techniques learned from previous didactic and preclinical experiences. (5 sch: 1 hr. lecture, 12 hr. clinical)

Prerequisites: Fundamentals of Dental Hygiene (DHT 1115)

Competencies and Suggested Objectives:

1. Explain care for clients with minimal periodontal disease.
 - a. Explain an individualized treatment plan.
 - b. Discuss a total oral prophylaxis.
 - c. Discuss an advanced exam and dental hygiene procedures.
 - d. Discuss a dental hygiene diagnosis.
 - e. Discuss effectiveness of treatment.
 - f. Explain an appropriate recall interval.
 - g. Discuss over-the-counter dental products.
 - h. Explain dental hygiene assistant and front office procedures.
2. Provide care for clients with minimal periodontal disease.
 - a. Present an individualized treatment plan.
 - b. Perform a total oral prophylaxis.
 - c. Perform advanced exam and dental hygiene procedures.
 - d. Formulate a dental hygiene diagnosis.
 - e. Assess effectiveness of treatment
 - f. Establish an appropriate recall interval.
 - g. Recommend over-the-counter dental products.
 - h. Perform dental office procedures and dental hygiene assistant procedures.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.

- M2 Explore patterns and functions.
- M4 Explore the concepts of measurement.
- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.
- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.
- WP8 Personal Qualities: Practices work ethics related to individual responsibility, integrity, honesty, and personal management.

National Educational Technology Standards for Students

- T1 Basic operations and concepts
- T2 Social, ethical, and human issues
- T3 Technology productivity tools
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH3G Dental sciences content must include pain management.
- DH4 Dental hygiene science content must include:
 - DH4A oral health education and preventive counseling;
 - DH4B health promotion;
 - DH4C patient management;
 - DH4D clinical dental hygiene;
 - DH4E provision of services for and management of patients with special needs;

DH4I infection and hazard control management; and
DH4J the provision of oral health care services to patients with blood borne
infectious diseases.

Course Name: Periodontics

Course Abbreviation: DHT 1512

Classification: Vocational-Technical Core

Description: An in-depth study of the supporting structures of the teeth is covered in this course. Also included is a clinical and theoretical understanding of their conditions in good health as well as their reaction to bacterial invasion in disease of varying etiology. The theory of clinical application to the management of the advanced periodontal patient to maintain a healthy and functional dental prosthesis is also studied. (2 sch: 2 hr. lecture)

Pre/Corequisites: Oral Histology and Embryology (DHT 1232) and Dental Anatomy (DHT 1212)

Competencies and Suggested Objectives:

1. Describe the supporting structures of the teeth.
 - a. identify the gross and microscopic structure, physiology, and function of the healthy periodontium as an entity, and in relation to the mouth and body as a whole.
 - b. Discuss the gross and microscopic structure, physiology, and function of the healthy periodontium as an entity, and in relation to the mouth and body as a whole.
2. Relate the clinical and theoretical understanding of periodontic disease.
 - a. Describe the etiology of periodontal disease as related to the initiating and modifying factors.
 - b. Recognize the development of the disease state and the tissues involved.
 - c. Recognize clinically the various forms of periodontal disease.
3. Apply the theory of clinical application to the management of the periodontal client.
 - a. Identify the role of the dental hygienist in the treatment of the periodontally involved patient including clinical evaluation, physiotherapy, scaling, curettage, and root planing.
 - b. Discuss the role of the dental hygienist in the treatment of the periodontally involved patient including clinical evaluation, physiotherapy, scaling, curettage, and root planing.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).

- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M4 Explore the concepts of measurement.
- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains and interprets/communicates information, including the use of computers.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

National Educational Technology Standards for Students

- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH3F Dental sciences content must include periodontology.
- DH4B Dental hygiene science content must include health promotion.

Course Name: Dental Hygiene Seminar I

Course Abbreviation: DHT 1911

Classification: Vocational-Technical Core

Description: This course provides the student with the opportunity to discuss managing dental office emergencies and professional development. (1 sch: 1 hr. lecture)

Prerequisites: None

Competencies and Suggested Objectives:

1. Provide fundamental knowledge and skills needed to manage dental office emergencies.
 - a. State general measures the dental hygienist should know to respond to emergency situations.
 - b. State the signs, symptoms, and treatments (including drugs) for selected common emergencies such as:
 - (1) Cardiac arrest
 - (2) Angina pectoris
 - (3) Acute myocardial infarction
 - (4) Convulsions
 - (5) Syncope
 - (6) Asthma
 - (7) Anaphylactic shock
 - (8) Apnea
 - (9) Hypoglycemia
 - c. List the equipment required to treat selected emergencies.
 - d. Give the names and potential uses of the drugs in an emergency kit for the dental office.
2. Discuss leadership skills.
 - a. Develop progressive leadership skills.
 - b. Establish professional goals.
 - c. Utilize group dynamics as a means of enhancing professional growth.
 - d. Participate in professional activities.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.

- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M4 Explore the concepts of measurement.
- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.
- S1 Explain the Anatomy and Physiology of the human body.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

National Educational Technology Standards for Students

- T1 Basic operations and concepts
- T2 Social, ethical, and human issues
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH1 General education content must include oral and written communications, psychology, and sociology.
- DH2 Biomedical science content must include content in anatomy, physiology, chemistry, biochemistry, microbiology, immunology, general pathology, nutrition, and pharmacology.
- DH3G Dental sciences content must include pain management.

- DH4 Dental hygiene science content must include:
 - DH4C patient management;
 - DH4G medical and dental emergencies including basic life support;
 - DH4H legal and ethical aspects of dental hygiene practice;
 - DH4I infection and hazard control management; and
 - DH4J the provision of oral health care services to patients with blood borne infectious diseases.

Course Name: Dental Hygiene Seminar II

Course Abbreviation: DHT 1921

Classification: Vocational-Technical Core

Description: This course provides the student with the opportunity to discuss patient care and treatment plans and professional development. (1 sch: 1 hr. lecture)

Prerequisites: Dental Hygiene Seminar I (DHT 1911)

Competencies and Suggested Objectives:

1. Demonstrate leadership skills.
 - a. Develop progressive leadership skills.
 - b. Establish professional goals.
 - c. Utilize group dynamics as a mean of enhancing professional growth.
 - d. Participate in professional activities.
2. Discuss dental client care.
 - a. Explain dental hygiene diagnosis.
 - b. Discuss basic treatment plan.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

WP8 Practice work ethics related to individual responsibility, integrity, honesty, and personal management.

National Educational Technology Standards for Students

- T2 Social, ethical, and human issues
- T3 Technology productivity tools
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

DH1 General education content must include oral and written communications, psychology, and sociology.

Course Name: General/Oral Pathology

Course Abbreviation: DHT 2233

Description: A study of the etiology and symptomatology of the pathological conditions affecting the head and neck with emphasis on the oral cavity. (3 sch: 3 hr. lecture)

Prerequisites: Dental Anatomy (DHT 1212), Head and Neck Anatomy (DHT 1222), Oral Histology and Embryology (DHT 1232)

Competencies and Suggested Objectives:

1. Identify pathological conditions affecting the head and neck with emphasis on the oral cavity.
 - a. Identify oral manifestations of disease.
 - b. Identify pathological lesions found in the head and neck with emphasis on the oral cavity.
2. Discuss pathological conditions affecting the head and neck with emphasis on the oral cavity.
 - a. Describe the process of disease.
 - b. Discuss disease prevention within the scope and responsibility of the dental hygienist.
 - c. Discuss the treatment of disease within the scope and responsibility of the dental hygienist.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M4 Explore the concepts of measurement.
- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.

- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

National Educational Technology Standards for Students

- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH2 Biomedical science content must include content in anatomy, physiology, chemistry, biochemistry, microbiology, immunology, general pathology, nutrition, and pharmacology.
 - DH3D Dental sciences content must include oral pathology.
 - DH4J Dental hygiene science content must include the provision of oral health care services to patients with blood borne infectious diseases.

Course Name: Clinical Dental Hygiene II

Course Abbreviation: DHT 2425

Classification: Vocational-Technical Core

Description: Continuation of the principles and techniques involved in the practice of dental hygiene. Emphasis will be on theoretical background needed to provide advanced clinical skills. Clinical experiences will focus on treatment of clients with moderate to advanced periodontal disease. (5 sch: 1 hr. lecture, 12 hr. clinical)

Prerequisites: Periodontics (DHT 1512) and Clinical Dental Hygiene I (DHT 1415)

Competencies and Suggested Objectives:

1. Provide care for clients with moderate to advanced periodontal disease.
 - a. Name the parts of the ultrasonic scalers and air polishers, and know the the function of each.
 - b. List the precautions, indications, and contraindications for using the ultrasonic scaler and air polisher.
 - c. Discuss the operating techniques of the ultrasonic scaler and air polisher, and demonstrate how to use it/them on clinical patients to efficiently remove calculus and/or stain.
 - d. Demonstrate the daily maintenance of the ultrasonic scaler and air polisher.
 - e. Demonstrate the procedure for unit preparation, client preparation, instrumentation, and post-operative instructions when using ultrasonic instrumentation.
 - f. Differentiate between scaling and root planning.
 - g. Give reasons to root plane completely.
 - h. Demonstrate the process of performing a root planning on a clinical client.
 - i. Explain the difference between gingival, subgingival, and surgical curettage.
 - j. List objectives of curettage.
 - k. Demonstrate the use of subgingival irrigation techniques.
 - l. Explain how topical anesthesia is applied prior to curettage.
 - m. Describe instrumentation for curettage.
 - n. List the effects of instrumentation for curettage.
 - o. Explain steps in the healing process and factors that interfere with healing.
2. Utilize skills in caring for all special needs clients.
 - a. Analyze reasons that certain clients experience pain and are anxious about dental treatment and be able to deal with these clients in a manner which instills confidence.

- b. Utilize skills in caring for special needs clients including the geriatric, oral surgery client, client with a fractured jaw, the pregnant client, client during puberty/menopause/adolescence, and the client with a physical or sensory handicap.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M4 Explore the concepts of measurement.
- M5 Explore the geometry of one-, two-, and three-dimensions.
- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.
- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S6 Explore the principles and theories related to motion, mechanics, electricity, magnetism, light energy, thermal energy, wave energy, and nuclear physics.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP5 Selects, applies, and maintains/troubleshoots technology.

- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

National Educational Technology Standards for Students

- T1 Basic operations and concepts
- T2 Social, ethical, and human issues
- T3 Technology productivity tools
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH3G Dental sciences content must include pain management.
- DH4 Dental hygiene science content must include:
 - DH4A oral health education and preventive counseling;
 - DH4B health promotion;
 - DH4C patient management;
 - DH4D clinical dental hygiene;
 - DH4E provision of services for and management of patients with special needs;
 - DH4I infection and hazard control management; and
 - DH4J the provision of oral health care services to patients with blood borne infectious diseases.

Course Name: Clinical Dental Hygiene III

Course Abbreviation: DHT 2436

Classification: Vocational-Technical Core

Description: A culmination of practice and the clinical procedures and theoretical knowledge needed to provide preventive, interceptive, and definitive dental hygiene treatment. (6 sch: 2 hr. lecture, 12 hr. clinical)

Prerequisites: Clinical Dental Hygiene II (DHT 2425)

Competencies and Suggested Objectives:

1. Explain care for clients with more advanced periodontal disease.
 - a. Discuss treating moderate to severe periodontal disease.
 - b. Explain all auxiliary duties in the dental office.
 - c. Discuss periodontal screening.
 - d. Discuss preventive dental hygiene services at a pace that closely resembles a typical appointment in a dental practice.
 - e. Discuss dental hygiene diagnosis for clients with more advanced disease.
 - f. Explain a treatment plan for clients with more advanced disease.
2. Provide care for clients with more advanced periodontal disease.
 - a. Develop skills in treating moderate to severe periodontal disease.
 - b. Develop skills in performing all auxiliary duties in the dental office.
 - c. Provide periodontal screening.
 - d. Provide preventive dental hygiene services at a pace that closely resembles a typical appointment in a dental practice.
 - e. Assess data to arrive at a dental hygiene diagnosis for a client with a more advanced disease.
 - f. Implement a treatment plan for a client with a more advanced disease.
 - g. Provide post-treatment evaluation for a client with advanced disease.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.

- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M3 Explore algebraic concepts and processes.
- M4 Explore the concepts of measurement.
- M5 Explore the geometry of one-, two-, and three-dimensions.
- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.
- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S6 Explore the principles and theories related to motion, mechanics, electricity, magnetism, light energy, thermal energy, wave energy, and nuclear physics.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP1 Allocates resources (time, money, materials and facilities, and human resources).
- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP5 Selects, applies, and maintains/troubleshoots technology.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

National Educational Technology Standards for Students

- T1 Basic operations and concepts
- T2 Social, ethical, and human issues
- T3 Technology productivity tools
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH3G Dental sciences content must include pain management.
- DH4 Dental hygiene science content must include:
 - DH4A oral health education and preventive counseling;
 - DH4B health promotion;
 - DH4C patient management;
 - DH4D clinical dental hygiene;
 - DH4E provision of services for and management of patients with special needs;
 - DH4I infection and hazard control management; and
 - DH4J the provision of oral health care services to patients with blood borne infectious diseases.

Course Name: Dental Hygiene Materials

Course Abbreviation: DHT 2613

Classification: Vocational-Technical Core

Description: Study of materials used in dentistry, their physical and chemical properties, and proper manipulation as used in the operator and laboratory. (3 sch: 2 hr. lecture, 2 hr. lab)

Prerequisites: None

Competencies and Suggested Objectives:

1. Discuss selected dental materials within the dental hygienist's scope of practice.
 - a. Discuss materials used in dentistry.
 - b. Demonstrate the ability to manipulate plaster, stone, impression materials, dental amalgam, dental cements, bases, composite resins, and abrasive agents.
 - c. Describe the armamentaria and techniques of restorative materials.
 - d. Perform allowable procedures which meet the stated criteria as designated by the State of Mississippi Board of Dental Examiners.
 - e. Demonstrate conversant knowledge of various laboratory techniques for full denture, partial denture, fixed bridge, crown, and inlay preparations; fluoride trays; and night guards.
2. Demonstrate the use of selected dental materials within the dental hygienist's scope of practice.
 - a. Identify materials used in dentistry.
 - b. Demonstrate the ability to manipulate plaster, stone, impression materials, dental amalgam, dental cements, bases, composite resins, and abrasive agents.
 - c. Describe the armamentaria and techniques of restorative materials.
 - d. Perform allowable procedures which meet the stated criteria as designated by the State of Mississippi Board of Dental Examiners.
 - e. Demonstrate conversant knowledge of the various laboratory techniques for full denture, partial denture, fixed bridge, crown, and inlay preparations; fluoride trays; and night guards.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.

- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M4 Explore the concepts of measurement.
- M5 Explore the geometry of one-, two-, and three-dimensions.
- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.
- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S6 Explore the principles and theories related to motion, mechanics, electricity, magnetism, light energy, thermal energy, wave energy, and nuclear physics.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP5 Selects, applies, and maintains/troubleshoots technology.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

National Educational Technology Standards for Students

- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH3H Dental sciences content must include dental materials.

Course Name: Dental Pharmacology

Course Abbreviation: DHT 2712

Classification: Vocational-Technical Core

Description: This course gives a basic introduction to drug actions, their mechanisms, and the reactions of the body to these drugs. Special emphasis is given to the drugs used in the modern dental office including emergency procedures. (2 sch: 2 hr. lecture)

Prerequisites: None

Competencies and Suggested Objectives:

1. Discuss the drug laws and usage as related to the dental practice.
 - a. Explain the laws governing drug use and procurement with special emphasis placed on those specifically spelled out in the practice acts of Mississippi.
 - b. Identify the most reliable sources of drug information.
2. Apply knowledge of pharmacology to the practice of dental hygiene.
 - a. Describe pharmacological terms, prescriptions, and dosages.
 - b. Interpret a drug prescription.
 - c. Manage clinical situations involving drugs and drug-related techniques encountered in general dental practice.
 - d. Utilize various drugs as adjuncts to dental hygiene procedures that are administered by the dental hygienist.
 - e. Demonstrate the ability to take critical drug information from each client, evaluate it, and translate it into how it may or may not alter the course of dental hygiene treatment.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M3 Explore algebraic concepts and processes.
- M4 Explore the concepts of measurement.

- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.
- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

National Educational Technology Standards for Students

- T1 Basic operations and concepts
- T2 Social, ethical, and human issues
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH2 Biomedical science content must include content in anatomy, physiology, chemistry, biochemistry, microbiology, immunology, general pathology, nutrition, and pharmacology.
- DH3G Dental sciences content must include pain management.
- DH4G Dental hygiene science content must include medical and dental emergencies including basic life support.

Course Name: Community Dental Health

Course Abbreviation: DHT 2813

Classification: Vocational-Technical Core

Description: This course provides an introduction to preventive dentistry as administered on federal, state, and local levels through official and voluntary health agencies. Supervised field experience gives an opportunity to observe and participate in some phases of community and school dental health programs. (3 sch: 2 hr. lecture, 3 hr. clinical)

Corequisites: Clinical Dental Hygiene III (DHT 2436)

Competencies and Suggested Objectives:

1. Discuss community oral health programs.
 - a. Explain rationale behind public health functions in community dental health.
 - b. Discuss community dental health programs in schools, nursing homes, state hospitals, maternal and childcare facilities, and other known areas of need.
2. Evaluate community oral health needs.
 - a. Asses the role of public health agencies in meeting dental needs of a community.
 - b. Plan community dental health programs to meet dental health needs.
 - c. Conduct the community dental health programs.
 - d. Discuss the diverse socio-economic strata within a community.
 - e. Evaluate program effectiveness via dental indices and statistical data.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M3 Explore algebraic concepts and processes.
- M4 Explore the concepts of measurement.

- M6 Explore concepts of statistics and probability in real world situations.
- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.
- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

National Educational Technology Standards for Students

- T2 Social, ethical, and human issues
- T3 Technology productivity tools
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH1 General education content must include oral and written communications, psychology, and sociology.
- DH4 Dental hygiene science content must include:
 - DH4A oral health education and preventive counseling;
 - DH4B health promotion;
 - DH4C patient management;
 - DH4D clinical dental hygiene;
 - DH4E provision of services for and management of patients with special needs;

DH4F community dental/oral health;
DH4G medical and dental emergencies including basic life support;
DH4H legal and ethical aspects of dental hygiene practice;
DH4I infection and hazard control management; and
DH4J the provision of oral health care services to patients with blood borne infectious diseases.

Course Name: Dental Ethics/Law

Course Abbreviation: DHT 2922

Classification: Vocational-Technical Core

Description: Focus on the ethical and legal aspects of providing dental health care. (2 sch: 2 hr. lecture)

Prerequisites: None

Competencies and Suggested Objectives:

1. Explain the ethical aspects of providing dental health care.
 - a. Analyze the basic criteria in ethical judgments.
 - b. Prepare an ethical case study in a form outlined for dealing with an ethical dilemma.
 - c. Relate each item in the ADHA Code of Ethics into a practical, everyday philosophy.
2. Explain the legal aspects of providing dental health care.
 - a. Recognize specific legal terms and their significance to dentistry and dental hygiene.
 - b. Incorporate legalities into practical experience for the protection of the dental hygienist, dentist, and patient.
 - c. Prepare a case study in dental law with inclusion of ethical concepts.
 - d. Discuss the Mississippi Dental Practice Act.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M6 Explore concepts of statistics and probability in real world situations.
- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.

National Educational Technology Standards for Students

- T2 Social, ethical, and human issues
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH4H Dental hygiene science content must include legal and ethical aspects of dental hygiene practice.

Course Name: Dental Hygiene Seminar III

Course Abbreviation: DHT 2931

Classification: Vocational-Technical Core

Description: This course provides the student with the opportunity to discuss dental disciplines and professional development. (1 sch: 1 hr. lecture)

Prerequisites: Dental Hygiene Seminar II (DHT 1921)

Competencies and Suggested Objectives:

1. Participate in leadership activities.
 - a. Develop progressive leadership skills.
 - b. Establish professional goals.
 - c. Utilize group dynamics as a means of enhancing professional growth.
 - d. Participate in professional activities.
2. Discuss the different disciplines of dentistry.
 - a. Critique presentations of members of the dental specialties.
 - b. Discover other opportunities in the dental field.
3. Discuss clinical simulation exam format.
 - a. Complete clinical simulation.
 - b. Discuss test taking strategies.
 - c. Complete case studies in the following areas: pediatric client, adult periodontally involved client, geriatric client, special needs client, and medically compromised client.
 - d. Critique case studies.
 - e. Critique care plans.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.

- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.
- WP8 Personal Qualities: Practices work ethics related to individual responsibility, integrity, honesty, and personal management.

National Educational Technology Standards for Students

- T1 Basic operations and concepts
- T2 Social, ethical, and human issues
- T3 Technology productivity tools
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH1 General education content must include oral and written communications, psychology, and sociology.
- DH2 Biomedical science content must include content in anatomy, physiology, chemistry, biochemistry, microbiology, immunology, general pathology, nutrition, and pharmacology.
- DH3 Dental sciences content must include:
 - DH3A tooth morphology;
 - DH3B head, neck and oral anatomy;
 - DH3C oral embryology and histology;
 - DH3D oral pathology;
 - DH3E radiography;
 - DH3F periodontology;

- DH3G pain management; and
- DH3H dental materials.
- DH4 Dental hygiene science content must include:
 - DH4A oral health education and preventive counseling;
 - DH4B health promotion;
 - DH4C patient management;
 - DH4D clinical dental hygiene;
 - DH4E provision of services for and management of patients with special needs;
 - DH4F community dental/oral health;
 - DH4G medical and dental emergencies including basic life support;
 - DH4H legal and ethical aspects of dental hygiene practice;
 - DH4I infection and hazard control management; and
 - DH4J the provision of oral health care services to patients with blood borne infectious diseases.

Course Name: Dental Hygiene Seminar IV

Course Abbreviation: DHT 2941

Classification: Vocational-Technical Core

Description: This course provides the student the opportunity to discuss the written registry exam, the clinical simulation exam format, and professional development. (1 sch: 1 hr. lecture)

Prerequisites: Dental Hygiene Seminar III (DHT 2931)

Competencies and Suggested Objectives:

1. Participate in leadership activities.
 - a. Develop progressive leadership skills.
 - b. Establish professional goals.
 - c. Utilize group dynamics as a means of enhancing professional growth.
 - d. Participate in professional activities.
2. Explain written registry exam format.
 - a. Complete mock exams.
 - b. Discuss exam content areas.
 - c. Discuss test taking strategies.
3. Explain clinical simulation exam format.
 - a. Complete clinical simulation.
 - b. Discuss exam content areas.
 - c. Discuss test taking strategies.
 - d. Develop case studies.
 - e. Develop care plans.
 - f. Critique care plans.

Standards

Related Academic Topics

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.
- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M3 Explore algebraic concepts and processes.

- M4 Explore the concepts of measurement.
- M5 Explore the geometry of one-, two-, and three-dimensions.
- M6 Explore concepts of statistics and probability in real world situations.
- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.
- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S3 Relate the nine major phyla of the kingdom animalia according to morphology, anatomy, and physiology.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S6 Explore the principles and theories related to motion, mechanics, electricity, magnetism, light energy, thermal energy, wave energy, and nuclear physics.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

Workplace Skills

- WP1 Allocates resources (time, money, materials and facilities, and human resources).
- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP5 Selects, applies, and maintains/troubleshoots technology.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.
- WP8 Personal Qualities: Practices work ethics related to individual responsibility, integrity, honesty, and personal management.

National Educational Technology Standards for Students

- T1 Basic operations and concepts
- T2 Social, ethical, and human issues
- T3 Technology productivity tools
- T4 Technology communications tools
- T5 Technology research tools
- T6 Technology problem-solving and decision-making tools

Standards Based on the Commission on Dental Accreditation

- DH1 General education content must include oral and written communications, psychology, and sociology.
- DH2 Biomedical science content must include content in anatomy, physiology, chemistry, biochemistry, microbiology, immunology, general pathology, nutrition, and pharmacology.
- DH3 Dental sciences content must include:
 - DH3A tooth morphology;
 - DH3B head, neck and oral anatomy;
 - DH3C oral embryology and histology;
 - DH3D oral pathology;
 - DH3E radiography;
 - DH3F periodontology;
 - DH3G pain management; and
 - DH3H dental materials.
- DH4 Dental hygiene science content must include:
 - DH4A oral health education and preventive counseling;
 - DH4B health promotion;
 - DH4C patient management;
 - DH4D clinical dental hygiene;
 - DH4E provision of services for and management of patients with special needs;
 - DH4F community dental/oral health;
 - DH4G medical and dental emergencies including basic life support;
 - DH4H legal and ethical aspects of dental hygiene practice;
 - DH4I infection and hazard control management; and
 - DH4J the provision of oral health care services to patients with blood borne infectious diseases.

RELATED VOCATIONAL-TECHNICAL COURSES

Course Name: Fundamentals of Microcomputer Applications

Course Abbreviation: CPT 1113

Classification: Related Vocational-Technical (From Computer Information Systems Technology)

Description: This course will introduce information processing concepts to include: word processing, spreadsheet, and database management software. **Service course; not to be taken by Business and Office and Related Technology students.** (3 sch: 2 hr. lecture, 2 hr. lab)

Prerequisites: None

Competencies and Suggested Objectives:

1. Discuss hardware components.
 - a. Describe the input, output, and storage elements of the information processing cycle and explain each element.
 - b. Describe and discuss the three main classifications of the computer to include micro, mid-range, and mainframes.
2. Explain classes of software.
 - a. Describe functions of systems software.
 - b. Identify widely used software applications.
 - c. Discuss various high level languages.
 - d. Discuss data organization.
3. Create and print mailable documents.
 - a. Develop keyboarding skills.
 - b. Prepare letters using full block style.
 - c. Use word processing software to produce documents.
4. Create and print spreadsheet.
 - a. Use spreadsheet software to produce acceptable worksheets.
 - b. Generate graphs from worksheets.
5. Create and print database files.
 - a. Use database software to produce databases.
 - b. Edit database records.
 - c. Print reports.
6. Integrate application information.
 - a. Merge a database with a word processing letter.
 - b. Merge a spreadsheet with a letter.

May 21, 2004

RELATED ACADEMIC COURSES

May 21, 2004

Course Name: Anatomy and Physiology I

Course Abbreviation: BIO 2514

Classification: Academic Core

Description: A lecture/laboratory course dealing with the anatomical and physiological study of the human body, particularly the molecular, cellular, tissue, organs, and systems. Each system is considered in detail regarding both structure and function.

Course Name: Anatomy and Physiology II

Course Abbreviation: BIO 2524

Classification: Academic Core

Description: A lecture/laboratory course of the systems listed but not covered in BIO 2514.

Course Name: Microbiology

Course Abbreviation: BIO 2923 or 2924

Classification: Academic Core

Description: This is a lecture/laboratory course providing a survey of the microbes (microscopic organisms) with emphasis and detailed study being placed on those affecting other forms of life, especially man. Laboratory is devoted to basic techniques of microbial study, such as identification, control, morphology, physiology, life cycles, and culture techniques.

Course Name: Introduction to Chemistry

Course Abbreviation: CHE 1113

Classification: Related Academic

Description: A course designed to introduce the fundamental concepts of general chemistry and general laboratory techniques. Designed for the non-science major.

Course Name: General Chemistry Laboratory I

Course Abbreviation: CHE 1211

Classification: Related Academic

Description: Must be taken concurrently in phase with the lecture sequence. Selected experiments to illustrate the principles taught in lecture.

Corequisites: General Chemistry I (CHE 1213) must be scheduled concurrently.

Course Name: General Chemistry I

Course Abbreviation: CHE 1213

Classification: Related Academic

Description: Atomic and molecular structure, periodicity and atomic properties, stoichiometry, the mole concept, types of solutions, energy-enthalpy.

Corequisites: General Chemistry Laboratory I (CHE 1211) must be scheduled concurrently.

Course Name: Introduction to Computer Concepts

Course Abbreviation: CSC 1113

Classification: Related Academic

Description: A basic course that advances concepts, terminology, and theory of modern computers. It is a survey course. It is not for business, computer science, or engineering students.

Course Name: English Composition II

Course Abbreviation: ENG 1123

Classification: Related Academic

Description: A continuation of ENG 1113 with emphasis on the whole composition. Readings, themes, and research paper required.

Course Name: Principles of Nutrition

Course Abbreviation: HEC 1233

Classification: Academic Core

Description: This course is a study of principles involved in food selection, food preparation, and food buying. Emphasis is placed on nutritive value of foods, planning, preparing, and serving meals under typical home conditions.

Course Name: Nutrition

Course Abbreviation: HEC 1253

Classification: Academic Core

Description: This course is a study of nutrients required for normal growth and applied to the selection of food for ingestion, metabolic process of digestion, assimilation, and absorption.

Course Name: General Psychology I

Course Abbreviation: PSY 1513

Classification: Academic Core

Description: An introduction to the scientific study of human behavior. Includes history and methods of psychology; growth and development; principles of learning; sensation and perception; thinking; statistics; personality; and intelligence.

Course Name: Introduction to Sociology I

Course Abbreviation: SOC 2113

Classification: Academic Core

Description: Deals with human relationships. Students will receive a synopsis of the whole field of sociology, including the social world, the social and cultural process within this world, and the integration of these processes in relation to the individual, the group, and the institution.

SECTION II:
RECOMMENDED TOOLS AND EQUIPMENT
FOR
POSTSECONDARY DENTAL HYGIENE TECHNOLOGY

May 21, 2004

RECOMMENDED TOOLS AND EQUIPMENT
FOR POSTSECONDARY DENTAL HYGIENE TECHNOLOGY

CAPITALIZED ITEMS

1. Air Polishing Unit (1 per 5 students)
2. Autoclave, Steam (1 per 5 students)
3. Cart, Stainless Steel with Shelves (1 per student)
4. Cleaner, Ultrasonic (1 per 4 students)
5. Computer w/Monitor (1 per 4 students)
6. Dental Chair (1 per operator)
7. Dental Light (1 per operator)
8. Film Developer for Daylight (1 per program)
9. Handpiece, Slow Speed (1 per student)
10. Instrument/Handpiece Cart (1 per operator)
11. Intraoral 35 mm Camera (1 per program)
12. Intraoral Video Camera (1 per program)
13. Light Curing Unit (1 per 2 students)
14. Manikin, X-ray, Adult (1 per x-ray room)
15. Manikin, X-ray, Mixed (1 per x-ray room)
16. Mechanical Spatulator (1 per program)
17. Microscope, Phase w/Monitor (1 per program)
18. OSHA Compliance System (1 per program)
19. Printer, Laser (1 per 2 computers)
20. Probe, Electronic Periodontal (2 per program)
21. Scaler, Sonic (1 per 5 students)
22. Spore Test Incubators (1 per program)
23. Stool, Operator (1 per operator)
24. Tank, Oxygen (2 per program)
25. Tester, Pulp Vitality (1 per 5 students)
26. Trimmer Model (1 per 5 students)
27. Ultrasonic Scaler (1 per 3 students)
28. Vacuum Forming Machine (1 per program)
29. Vibrator, Dental Office (1 per program)
30. X-ray Automatic Film Processor (1 per program)
31. X-ray Extra-Oral Machine (1 per program)
32. X-ray Pano Apron (1 per x-ray room)
33. X-ray Processing Tanks (1 per program)
34. X-ray Intra-Oral Unit (1 per x-ray room)
35. X-ray View Box (1 per operator and 1 per x-ray room)
36. Nitrous Oxide Machine (1 per program)
37. Automated External Defibrillator (1 per program)

NON-CAPITALIZED ITEMS

1. Bench Mount (1 per student)
2. Chair Mount (1 per chair)
3. Dentiform (1 per student)
4. Emergency Medical Kit (1 per program)
5. Engine, Bench with Handpiece (1 per 5 students)
6. Film Duplicator (1 per program)
7. Handpiece, High Speed (1 per 3 students)
8. Lathe (1 per 5 students)
9. Screen, Extra-Oral Rare Earth (1 per program)
10. Amalgam Instruments (1 per 5 students)
11. Articulator, Hinged (1 per 5 students)
12. Boley Gauge (2 per program)
13. Bowl, Lab Mixing, Medium (1 per student)
14. Bowl, Lab Mixing, Large (1 per student)
15. Burners (2 per program)
16. Carver, Roach (2 per program)
17. Cassette, Instrument (2 per student)
18. Eye Wash (1 per lab)
19. Holder, Cotton Roll (1 per operator)
20. Irrigator, Intra-Oral (1 per 5 students)
21. Knife, Lab (1 per student)
22. Mirror, Mouth (2 per student)
23. Mirror, Hand (1 per student)
24. Prophy Angle (1 per student)
25. Slab, Glass Mixing (1 per 3 students)
26. Spatula, Plaster (1 per student)
27. Sphygmomanometer (1 per 2 students and 1 per operator)
28. Spill Kit (1 per program)
29. Splash Hood with Lucite Shield (1 per lathe)
30. Stethoscope (1 per student)
31. Syringe, Aspirating (1 per 5 students)
32. Thermometer, Digital (1 per operator)
33. Tray, Impression, Perforated (Maxillary & Mandibular), Small Set (2 per program)
34. Tray, Impression, Perforated (Maxillary & Mandibular), Medium Set (2 per program)
35. Tray, Impression, Perforated (Maxillary & Mandibular), Large Set (2 per program)
36. Ultrasonic Insert #1 (1 per 3 students)
37. Ultrasonic Insert #3 (1 per 3 students)
38. Ultrasonic Insert #7 (1 per 3 students)
39. Ultrasonic Insert #10 (1 per 3 students)
40. Ultrasonic Insert EWPP (1 per 3 students)
41. Ultrasonic Insert PzR (1 per 3 students)
42. Ultrasonic Insert PzL (1 per 3 students)
43. X-ray Apron w/Thyroid Collar, Adult (1 per x-ray room and 1 per program)

44. X-ray Apron w/Thyroid Collar, Pediatric (1 per x-ray room and 1 per program)
45. X-ray Darkroom Light (1 per darkroom)
46. X-ray Film Hanger (1 per student)
47. X-ray Film Holders (1 per 2 students)
48. X-ray PID, 16" (1 per program)
49. X-ray Thermometer, Floating (1 per program)
50. Model, 2.5 x Natural Size Teeth Model (1 per 5 students)
51. Model, Developmental, Newborn (1 per 5 students)
52. Model, Developmental, Child/Adolescent (1 per 5 students)
53. Model, Developmental, Adult (1 per 5 students)
54. Skulls, Plastic Human (1 per 2 students)
55. Skull, Sagittally Sectioned (1 per 2 students)
56. Screen, Projector (1 per program)
57. Model, Malocclusion (1 per 5 students)
58. Stethoscope, Teaching (1 per program)
59. Teeth, Individual Synthetic (6 sets per program)

SUGGESTED REFERENCES (1 per program except where otherwise noted):

American Dental Association regulatory compliance manual. Updated annually by the American Dental Association.

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- Haring, J. I., & Lind, L. J. (1993). *Radiographic interpretation for the dental hygienist*. Philadelphia: WB Saunders.
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VIDEOS/DVDS (1 per program unless otherwise noted):

OSHA Guidelines
Polishing
Ultrasonic Scaling

Sealants
Fluoride
Extra-oral/Intra-oral
Vital Signs
Instrumentation
Sharpening
Patient Operator Position
Radiology Techniques
Managing Implants

SOFTWARE (1 per program unless otherwise noted):

Board Review (Published by Saunders)

SLIDE SETS (1 per program unless otherwise noted):

Atlas of Histology
Basic Human Histology Set
Oral Cavity
Teeth and Their Function
Oral Pathology for the Dental Hygienist
ADA Oral Pathology

APPENDIX A:
RELATED ACADEMIC TOPICS

May 21, 2004

APPENDIX A RELATED ACADEMIC TOPICS

RELATED ACADEMIC TOPICS FOR COMMUNICATIONS

- C1 Interpret written material.
- C2 Interpret visual materials (maps, charts, graphs, tables, etc.).
- C3 Listen, comprehend, and take appropriate actions.
- C4 Access, organize, and evaluate information.
- C5 Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.
- C6 Communicate ideas and information effectively using various oral and written forms for a variety of audiences and purposes.

EXPANDED TOPICS FOR COMMUNICATIONS

TOPIC C1: Interpret written material.

- C1.01 Read and follow complex written directions.
- C1.02 Recognize common words and meanings associated with a variety of occupations.
- C1.03 Adjust reading strategy to purpose and type of reading.
- C1.04 Use sections of books and reference sources to obtain information.
- C1.05 Compare information from multiple sources and check validity.
- C1.06 Interpret items and abbreviations used in multiple forms.
- C1.07 Interpret short notes, memos, and letters.
- C1.08 Comprehend technical words and concepts.
- C1.09 Use various reading techniques depending on purpose for reading.
- C1.10 Find, read, understand, and use information from printed matter or electronic sources.

TOPIC C2: Interpret visual materials (maps, charts, graphs, tables, etc.).

- C2.01 Use visuals in written and in oral presentations.
- C2.02 Recognize visual cues to meaning (layout, typography, etc.).
- C2.03 Interpret and apply information using visual materials.

TOPIC C3: Listen, comprehend, and take appropriate action.

- C3.01 Identify and evaluate orally-presented messages according to purpose.
- C3.02 Recognize barriers to effective listening.
- C3.03 Recognize how voice inflection changes meaning.
- C3.04 Identify speaker signals requiring a response and respond accordingly.
- C3.05 Listen attentively and take accurate notes.
- C3.06 Use telephone to receive information.

C3.07 Analyze and distinguish information from formal and informal oral presentations.

TOPIC C4: Access, organize, and evaluate information.

C4.01 Distinguish fact from opinion.

C4.02 Use various print and non-print sources for specialized information.

C4.03 Interpret and distinguish between literal and figurative meaning.

C4.04 Interpret written or oral communication in relation to context and writer's point of view.

C4.05 Use relevant sources to gather information for written or oral communication.

TOPIC C5: Use written and/or oral language skills to work cooperatively to solve problems, make decisions, take actions, and reach agreement.

C5.01 Select appropriate words for communication needs.

C5.02 Use reading, writing, listening, and speaking skills to solve problems.

C5.03 Compose inquiries and requests.

C5.04 Write persuasive letters and memos.

C5.05 Edit written reports, letters, memos, and short notes for clarity, correct grammar, and effective sentences.

C5.06 Write logical and understandable statements, phrases, or sentences for filling out forms, for correspondence or reports.

C5.07 Write directions or summaries of processes, mechanisms, events, or concepts.

C5.08 Select and use appropriate formats for presenting reports.

C5.09 Convey information to audiences in writing.

C5.10 Compose technical reports and correspondence that meet accepted standards for written communications.

TOPIC C6: Communicate ideas and information using oral and written forms for a variety of audiences and purposes.

C6.01 Give complex oral instructions.

C6.02 Describe a business or industrial process/mechanism.

C6.03 Participate effectively in group discussions and decision making.

C6.04 Produce effective oral messages utilizing different media.

C6.05 Explore ideas orally with partners.

C6.06 Participate in conversations by volunteering information when appropriate and asking relevant questions when appropriate.

C6.07 Restate or paraphrase a conversation to confirm one's own understanding.

C6.08 Gather and provide information utilizing different media.

C6.09 Prepare and deliver persuasive, descriptive, and demonstrative oral presentations.

RELATED ACADEMIC TOPICS FOR MATHEMATICS

- M1 Relate number relationships, number systems, and number theory.
- M2 Explore patterns and functions.
- M3 Explore algebraic concepts and processes.
- M4 Explore the concepts of measurement.
- M5 Explore the geometry of one-, two-, and three-dimensions.
- M6 Explore concepts of statistics and probability in real world situations.
- M7 Apply mathematical methods, concepts, and properties to solve a variety of real-world problems

EXPANDED TOPICS FOR MATHEMATICS

TOPIC M1: Relate number relationships, number systems, and number theory.

- M1.01 Understand, represent, and use numbers in a variety of equivalent forms (integer, fraction, decimal, percent, exponential, and scientific notation) in real world and mathematical problem situations.
- M1.02 Develop number sense for whole numbers, fractions, decimals, integers, and rational numbers.
- M1.03 Understand and apply ratios, proportions, and percents in a wide variety of situations.
- M1.04 Investigate relationships among fractions, decimals, and percents.
- M1.05 Compute with whole numbers, fractions, decimals, integers, and rational numbers.
- M1.06 Develop, analyze, and explain procedures for computation and techniques for estimations.
- M1.07 Select and use an appropriate method for computing from among mental arithmetic, paper-and-pencil, calculator, and computer methods.
- M1.08 Use computation, estimation, and proportions to solve problems.
- M1.09 Use estimation to check the reasonableness of results.

TOPIC M2: Explore patterns and functions.

- M2.01 Describe, extend, analyze, and create a wide variety of patterns.
- M2.02 Describe and represent relationships with tables, graphs, and rules.
- M2.03 Analyze functional relationships to explain how a change in one quantity results in a change in another.
- M2.04 Use patterns and functions to represent and solve problems.
- M2.05 Explore problems and describe results using graphical, numerical, physical, algebraic, and verbal mathematical models or representations.
- M2.06 Use a mathematical idea to further their understanding of other mathematical ideas.
- M2.07 Apply mathematical thinking and modeling to solve problems that arise in other disciplines, such as art, music, and business.

TOPIC M3: Explore algebraic concepts and processes.

- M3.01 Represent situations and explore the interrelationships of number patterns with tables, graphs, verbal rules, and equations.
- M3.02 Analyze tables and graphs to identify properties and relationships and to interpret expressions and equations.
- M3.03 Apply algebraic methods to solve a variety of real world and mathematical problems.

TOPIC M4: Explore the concepts of measurement.

- M4.01 Estimate, make, and use measurements to describe and compare phenomena.
- M4.02 Select appropriate units and tools to measure to the degree of accuracy required in a particular situation.
- M4.03 Extend understanding of the concepts of perimeter, area, volume, angle measure, capacity, and weight and mass.
- M4.04 Understand and apply reasoning processes, with special attention to spatial reasoning and reasoning with proportions and graphs.

TOPIC M5: Explore the geometry of one-, two-, and three-dimensions.

- M5.01 Identify, describe, compare, and classify geometric figures.
- M5.02 Visualize and represent geometric figures with special attention to developing spatial sense.
- M5.03 Explore transformations of geometric figures.
- M5.04 Understand and apply geometric properties and relationships.
- M5.05 Classify figures in terms of congruence and similarity and apply these relationships.

TOPIC M6: Explore the concepts of statistics and probability in real world situations.

- M6.01 Systematically collect, organize, and describe data.
- M6.02 Construct, read, and interpret tables, charts, and graphs.
- M6.03 Develop an appreciation for statistical methods as powerful means for decision making.
- M6.04 Make predictions that are based on exponential or theoretical probabilities.
- M6.05 Develop an appreciation for the pervasive use of probability in the real world.

TOPIC M7: Apply mathematical methods, concepts, and properties to solve a variety of real-world problems.

- M7.01 Use computers and/or calculators to process information for all mathematical situations.
- M7.02 Use problem-solving approaches to investigate and understand mathematical content.

- M7.03 Formulate problems from situations within and outside mathematics.
- M7.04 Generalize solutions and strategies to new problem situations.

RELATED ACADEMIC TOPICS FOR SCIENCE

- S1 Explain the Anatomy and Physiology of the human body.
- S2 Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.
- S3 Relate the nine major phyla of the kingdom animalia according to morphology, anatomy, and physiology.
- S4 Explore the chemical and physical properties of the earth to include Geology, Meteorology, Oceanography, and the Hydrologic Cycle.
- S5 Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.
- S6 Explore the principles and theories related to motion, mechanics, electricity, magnetism, light energy, thermal energy, wave energy, and nuclear physics.
- S7 Explore the principles of genetic and molecular Biology to include the relationship between traits and patterns of inheritance, population genetics, the structure and function of DNA, and current applications of DNA technology.
- S8 Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

EXPANDED TOPICS FOR SCIENCE

TOPIC S1: Explain the Anatomy and Physiology of the human body.

- S1.01 Recognize common terminology and meanings.
- S1.02 Explore the relationship of the cell to more complex systems within the body.
- S1.03 Summarize the functional anatomy of all the major body systems.
- S1.04 Relate the physiology of the major body systems to its corresponding anatomy.
- S1.05 Compare and contrast disease transmission and treatment within each organ system.
- S1.06 Explore the usage of medical technology as related to human organs and organ systems.
- S1.07 Explain the chemical composition of body tissue.

TOPIC S2: Apply the basic biological principles of Plants, Viruses and Monerans, Algae, Protista, and Fungi.

- S2.01 Identify the major types and structures of plants, viruses, monera, algae protista, and fungi.

- S2.02 Explain sexual and asexual reproduction.
- S2.03 Describe the ecological importance of plants as related to the environment.
- S2.04 Analyze the physical chemical and behavioral process of a plant.

TOPIC S3: Relate the nine major phyla of the kingdom animalia according to morphology, anatomy, and physiology.

- S3.01 Explain the morphology, anatomy, and physiology of animals.
- S3.02 Describe the characteristics, behaviors, and habitats of selected animals.

TOPIC S4: Explore the chemical and physical properties of the earth to include Geology, Meteorology, Oceanography, and the Hydrologic Cycle.

- S4.01 Examine minerals and their identification, products of the rock cycle, byproducts of weathering, and the effects of erosion.
- S4.02 Relate the Hydrologic Cycle to include groundwater its zones, movement, and composition; surface water systems, deposits, and runoff.
- S4.03 Consider the effects of weather and climate on the environment.
- S4.04 Examine the composition of seawater; wave, tides, and currents; organisms, environment, and production of food; energy, food and mineral resources of the oceans.

TOPIC S5: Investigate the properties and reactions of matter to include symbols, formulas and nomenclature, chemical equations, gas laws, chemical bonding, acid-base reactions, equilibrium, oxidation-reduction, nuclear chemistry, and organic chemistry.

- S5.01 Examine the science of chemistry to include the nature of matter, symbols, formulas and nomenclature, and chemical equations.
- S5.02 Identify chemical reactions including precipitation, acids-bases, and reduction-oxidation.
- S5.03 Explore the fundamentals of chemical bonding and principles of equilibrium.
- S5.04 Relate the behavior of gases.
- S5.05 Investigate the structure, reactions, and uses of organic compounds; and investigate nuclear chemistry and radiochemistry.

TOPIC S6: Explore the principles and theories related to motion, mechanics, electricity, magnetism, light energy, thermal energy, wave energy, and nuclear physics.

- S6.01 Examine fundamentals of motion of physical bodies and physical dynamics.
- S6.02 Explore the concepts and relationships among work, power, and energy.
- S6.03 Explore principles, characteristics, and properties of electricity, magnetism, light energy, thermal energy, and wave energy.
- S6.04 Identify principles of modern physics related to nuclear physics.

TOPIC S7: Explore the principles of genetic and molecular Biology to include the relationship between traits and patterns of inheritance; population genetics, the structure and function of DNA, and current applications of DNA technology.

S7.01 Examine principles, techniques, and patterns of traits and inheritance in organisms.

S7.02 Apply the concept of population genetics to both microbial and multicellular organisms.

S7.03 Identify the structure and function of DNA and the uses of DNA technology in science, industry, and society.

TOPIC S8: Apply concepts related to the scientific process and method to include safety procedures for classroom and laboratory; use and care of scientific equipment; interrelationships between science, technology and society; and effective communication of scientific results in oral, written, and graphic form.

S8.01 Apply the components of scientific processes and methods in classroom and laboratory investigations.

S8.02 Observe and practice safe procedures in the classroom and laboratory.

S8.03 Demonstrate proper use and care for scientific equipment.

S8.04 Investigate science careers, and advances in technology.

S8.05 Communicate results of scientific investigations in oral, written, and graphic form.

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APPENDIX B:
WORKPLACE SKILLS

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WORKPLACE SKILLS FOR THE 21ST CENTURY

- WP1 Allocates resources (time, money, materials and facilities, and human resources).
- WP2 Acquires, evaluates, organizes and maintains, and interprets/communicates information, including the use of computers.
- WP3 Practices interpersonal skills related to careers including team member participation, teaching other people, serving clients/customers, exercising leadership, negotiation, and working with culturally diverse.
- WP4 Applies systems concept including basic understanding, monitoring and correction system performance, and designing and improving systems.
- WP5 Selects, applies, and maintains/troubleshoots technology.
- WP6 Employs thinking skills including creative thinking, decision making, problem solving, reasoning, and knowing how to learn.
- WP7 Basic Skills: Employs basic academic skills including reading, writing, arithmetic and mathematics, speaking, and listening.
- WP8 Personal Qualities: Practices work ethics related to individual responsibility, integrity, honesty, and personal management.

May 21, 2004

APPENDIX C:
NATIONAL EDUCATIONAL TECHNOLOGY STANDARDS FOR STUDENTS

May 21, 2004

NATIONAL EDUCATIONAL TECHNOLOGY STANDARDS FOR STUDENTS

- T1 Basic operations and concepts
- Students demonstrate a sound understanding of the nature and operation of technology systems.
 - Students are proficient in the use of technology.
- T2 Social, ethical, and human issues
- Students understand the ethical, cultural, and societal issues related to technology.
 - Students practice responsible use of technology systems, information, and software.
 - Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.
- T3 Technology productivity tools
- Students use technology tools to enhance learning, increase productivity, and promote creativity.
 - Students use productivity tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.
- T4 Technology communications tools
- Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
 - Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.
- T5 Technology research tools
- Students use technology to locate, evaluate, and collect information from a variety of sources.
 - Students use technology tools to process data and report results.
 - Students evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.
- T6 Technology problem-solving and decision-making tools
- Students use technology resources for solving problems and making informed decisions.
 - Students employ technology in the development of strategies for solving problems in the real world.

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APPENDIX D:
STANDARDS BASED ON THE COMMISSION ON DENTAL ACCREDITATION

May 21, 2004

STANDARDS BASED ON THE COMMISSION ON DENTAL ACCREDITATION

- DH1 General education content must include oral and written communications, psychology, and sociology.
- DH2 Biomedical science content must include content in anatomy, physiology, chemistry, biochemistry, microbiology, immunology, general pathology, nutrition, and pharmacology.
- DH3 Dental sciences content must include:
 - DH3A tooth morphology;
 - DH3B head, neck and oral anatomy;
 - DH3C oral embryology and histology;
 - DH3D oral pathology;
 - DH3E radiography;
 - DH3F periodontology;
 - DH3G pain management; and
 - DH3H dental materials.
- DH4 Dental hygiene science content must include:
 - DH4A oral health education and preventive counseling;
 - DH4B health promotion;
 - DH4C patient management;
 - DH4D clinical dental hygiene;
 - DH4E provision of services for and management of patients with special needs;
 - DH4F community dental/oral health;
 - DH4G medical and dental emergencies including basic life support;
 - DH4H legal and ethical aspects of dental hygiene practice;
 - DH4I infection and hazard control management; and
 - DH4J the provision of oral health care services to patients with blood borne infectious diseases.

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APPENDIX E:
STUDENT COMPETENCY PROFILE

STUDENT COMPETENCY PROFILE

Student: _____

This record is intended to serve as a method of noting student achievement of the competencies in each course. It can be duplicated for each student and serve as a cumulative record of competencies achieved in the program.

In the blank before each competency, place the date on which the student mastered the competency.

Fundamentals of Dental Hygiene (DHT 1115)

- _____ 1. Discuss the history, philosophy, and theories relevant to the dental hygiene profession.
- _____ 2. Discuss the issues relevant to establishing trust, care, and responsibility with clients.
- _____ 3. Develop psychomotor skills necessary for the delivery of dental hygiene services.
- _____ 4. Recognize basic etiology of dental disease, related treatment, and preventive measures.

Dental Anatomy (DHT 1212)

- _____ 1. Explain dentition.
- _____ 2. Explain related structures.

Head and Neck Anatomy (DHT 1222)

- _____ 1. Explain the skeletal features of the face, head, and neck.
- _____ 2. Explain the muscular, vascular, and neural features of the face, head, and neck.

Oral Histology and Embryology (DHT 1232)

- _____ 1. Describe the microscopic structure and development of types of cells, tissues, and organs of the human body.
- _____ 2. Discuss the elements of embryology emphasizing the area of the head and neck.

Dental Radiology (DHT 1314)

- _____ 1. Explain the theory and scope of radiology as related to dental hygiene.
- _____ 2. Apply the theory and scope of radiology as related to dental hygiene.

Clinical Dental Hygiene I (DHT 1415)

- _____ 1. Explain care for clients with minimal periodontal disease.
- _____ 2. Provide care for clients with minimal periodontal disease.

Periodontics (DHT 1512)

- _____ 1. Describe the supporting structures of the teeth.
- _____ 2. Relate the clinical and theoretical understanding of periodontic disease.
- _____ 3. Apply the theory of clinical application to the management of the periodontal client.

Dental Hygiene Seminar I (DHT 1911)

- _____ 1. Provide fundamental knowledge and skills needed to manage dental office emergencies.
- _____ 2. Discuss leadership skills.

Dental Hygiene Seminar II (DHT 1921)

- _____ 1. Demonstrate leadership skills.
- _____ 2. Discuss dental client care.

General/Oral Pathology (DHT 2233)

- _____ 1. Identify pathological conditions affecting the head and neck with emphasis on the oral cavity.
- _____ 2. Discuss pathological conditions affecting the head and neck with emphasis on the oral cavity.

Clinical Dental Hygiene II (DHT 2425)

- _____ 1. Provide care for clients with moderate to advanced periodontal disease.
- _____ 2. Utilize skills in caring for all special needs clients.

Clinical Dental Hygiene III (DHT 2436)

- _____ 1. Explain care for clients with more advanced periodontal disease.
- _____ 2. Provide care for clients with more advanced periodontal disease.

Dental Hygiene Materials (DHT 2613)

- _____ 1. Discuss selected dental materials within the dental hygienist's scope of practice.
- _____ 2. Demonstrate the use of selected dental materials within the dental hygienist's scope of practice.

Dental Pharmacology (DHT 2712)

- _____ 1. Discuss the drug laws and usage as related to the dental practice.
- _____ 2. Apply knowledge of pharmacology to the practice of dental hygiene.

Community Dental Health (DHT 2813)

- _____ 1. Discuss community oral health programs.
- _____ 2. Evaluate community oral health needs.

Dental Ethics/Law (DHT 2922)

- _____ 1. Explain the ethical aspects of providing dental health care.
- _____ 2. Explain the legal aspects of providing dental health care.

Dental Hygiene Seminar III (DHT 2931)

- _____ 1. Participate in leadership skills.
- _____ 2. Discuss the different disciplines of dentistry.
- _____ 3. Discuss clinical simulation exam format.

Dental Hygiene Seminar IV (DHT 2941)

- _____ 1. Participate in leadership activities.
- _____ 2. Explain written registry exam format.
- _____ 3. Explain clinical simulation exam format.

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APPENDIX F:
BASELINE COMPETENCIES

BASELINE COMPETENCIES FOR POSTSECONDARY DENTAL HYGIENE TECHNOLOGY PROGRAMS

The following competencies and suggested objectives are taken from the publication *Mississippi Curriculum Framework for Allied Health*. These competencies and objectives represent the baseline which was used to develop the community/junior college Dental Hygiene Technology courses. Students enrolled in postsecondary courses should either (1) have documented mastery of these competencies, or (2) be provided with these competencies before studying the advanced competencies in the Dental Hygiene Technology program.

Baseline competencies may be integrated into existing courses in the curriculum or taught as special "Introduction" courses. The "Introduction" courses may be taught for up to six semester hours of institutional credit and may be divided into two courses. If the Baseline Competencies are to be taught as "Introduction" courses, each course should be at least 3 credit hours. The following course number(s) and description should be used:

Course Name(s): Introduction to Dental Hygiene Technology, Introduction to Dental Hygiene Technology I, or Introduction to Dental Hygiene Technology II

Course Abbreviation(s): DHT 100(3-6), DHT 1013, DHT 1023

Classification: Vocational-Technical Core

Description: These courses contain the baseline competencies and suggested objectives from the high school curriculum which directly relate to the community college program. The courses are designed for students entering the community college who have had no previous training or documented experience in the field. (3-6 semester hours based upon existing skills for each student. May be divided into 2 courses for a maximum total of 6 hours of institutional credit.)

Competencies and Suggested Objectives:

1. Review material related to course and professional organizations.
 - a. Identify student and course expectations.
 - b. Identify allied health professional student organizations and their roles in individual career development.
 - c. Compare the timeline of medical history.
2. Recognize safety procedures and policies.
 - a. Describe basic safety procedures.
 - b. Describe accident prevention methods and disaster plans of the local school district.
 - c. Discuss a safe and clean environment.
 - d. Follow state and facility guidelines, including dress requirements for clinical-type experiences.

3. Explain effective communication skills.
 - a. Identify the main factors required for the communication process.
 - b. Identify factors which can interfere with the communication process.
 - c. Demonstrate effective teamwork skills.
 - d. Explore professional literature and medical references.
4. Introduce careers in the health care industry.
 - a. Introduce careers in direct health care.
5. Discuss education and credentials required for health care careers.
 - a. Discuss educational levels for health careers, including certification, associate degree, bachelor's degree, master's degree, and doctoral degree.
 - b. Compare the credentials needed for careers in health care, including certification, registration, and licensure.
6. Discuss professional ethics.
 - a. Explain professional ethics.
 - b. Discuss confidentiality.
 - c. Discuss HIPAA, the Health Insurance Portability and Accountability Act of 1996.
7. Discuss legal responsibility and clients rights.
 - a. Explain torts and legal responsibility.
 - b. Identify ways to promote clients' rights and privacy.
 - c. Discuss the requirement for health care workers to undergo a background check.
8. Explain standard precautions.
 - a. Explain importance of standard precautions in life practices and health care.
 - b. Explain the state and federal government's role in standard precautions.
 - c. Relate standard precautions to the transmission of infectious diseases including HIV, AIDS, HBV, and TB.
9. Utilize standard precautions.
 - a. Demonstrate hand-washing technique.
 - b. Demonstrate donning and removing clean gloves.
10. Perform basic emergency procedures.
 - a. Explain first aid procedures for sudden illness.
 - b. Explain first aid procedures for accidents.
11. Perform advanced emergency procedures.
 - a. Perform CPR.
 - b. Demonstrate first aid for an obstructed airway.
12. Explain medical terminology.
 - a. Spell designated medical terms correctly.
 - b. Demonstrate the use of medical references to spell medical terms correctly.
 - c. Define and divide medical terms into root words, prefixes, and suffixes.
13. Recognize and use medical terminology.
 - a. Interpret the common medical abbreviations and symbols including meanings and uses.

- b. Demonstrate the use of medical terms and abbreviations in reading, speaking, interpreting, and writing simulated medical records.
14. Review the relationship among cells, tissues, organs, and systems.
 - a. Review the main parts of a cell.
 - b. Review the functions of the main parts of a cell.
 - c. Compare types of tissues and their relationships to body organs and systems.
15. Identify the body planes, directions, and cavities.
 - a. Identify the names of the planes and the directional terms.
 - b. Locate the body cavities.
 - c. Identify the body organs in each cavity.
 - d. Describe the abdominal regions.
16. Interpret the basic structures and functions of the integumentary system.
 - a. Identify the parts of the integumentary system.
 - b. Explain the functions of the integumentary system.
 - c. Discuss related diseases and disorders.
17. Interpret the basic structures and functions of the muscular system.
 - a. Identify major muscles.
 - b. Explain the function of the muscles.
 - c. Discuss related diseases and disorders.
 - d. Demonstrate active range of motion exercises and indications for use.
18. Interpret the basic structure and function of the skeletal system.
 - a. Identify the bones of the body.
 - b. Explain functions of the skeletal system.
 - c. Discuss related diseases and disorders.
 - d. Demonstrate procedures for patient transfer using a stretcher, wheelchair, or a pneumatic lift.
19. Interpret the basic structures and functions of the circulatory system.
 - a. Identify components of blood and their function.
 - b. Identify the types of blood vessels and the action of each.
 - c. Identify the anatomy of the heart.
 - d. Explain the flow of blood through the heart.
 - e. Discuss related diseases and disorders.
20. Measure vital signs.
 - a. Measure oral temperature.
 - b. Explain procedures for measuring axillary, rectal, and tympanic temperatures.
 - c. Identify the body's pulse points.
 - d. Demonstrate radial pulse measurement.
 - e. Measure blood pressure.
21. Interpret the basic structures of the respiratory system.
 - a. Identify the structures of the respiratory system.
 - b. Discuss related diseases and disorders.
 - c. Auscultate lung sounds.
22. Interpret the basic structures and functions of the digestive system.
 - a. Identify organs of the digestive system.

- b. Discuss the functions of organs of the digestive system.
- c. Discuss related diseases and disorders.
- 23. Interpret the basic structures and functions of the urinary system.
 - a. Identify structures of the urinary system.
 - b. State the functions of each structure of the urinary system.
 - c. Discuss related diseases and disorders.
- 24. Interpret the basic structures and functions of the nervous system.
 - a. Identify the major structures and functions of the nervous system.
 - b. Recognize procedures for neurological exam.
 - c. Perform neurological exams.
 - d. Discuss related diseases and disorders.
- 25. Interpret basic structure and functions of the sensory systems.
 - a. Label the basic structures of the sensory organs.
 - b. Identify the functions of the sensory organs.
- 26. Interpret the basic structures and functions of the female reproductive system.
 - a. Identify the major structures and functions of the female reproductive system.
 - b. Discuss diseases and disorders of the female reproductive system.
 - c. Discuss the procedures of a breast exam.
 - d. Perform breast exam on model in lab.
- 27. Interpret the basic structures and functions of the male reproductive system.
 - a. Identify major structures and functions of the male reproductive system.
 - b. Discuss diseases and disorders of the male reproductive system.
 - c. Discuss procedures of a testicular exam.
 - d. Perform testicular exam on model in lab.
- 28. Interpret the basic structures of the endocrine system.
 - a. Define key terms related to the endocrine system.
 - b. Label structures of the endocrine system.
- 29. Identify ways pathogenic microorganisms are spread in relation to the infection cycle.
 - a. Review the integumentary system.
 - b. Define terms related to infection control and asepsis.
 - c. Define general principles, purposes, and types of isolation.
 - d. Demonstrate how to don and remove isolation garments and equipment.
 - e. Describe basic methods of sterilization and disinfection.
 - f. Discuss concurrent and terminal cleaning of a patient unit.
- 30. Explain procedures related to infection control.
 - a. Demonstrate a sterile procedure maintaining a sterile field.
 - b. Describe basic techniques to prepare, wrap, and sterilize instruments.
 - c. Observe a surgical scrub.
 - d. Discuss repair of medical equipment by biomedical personnel.
- 31. Discuss stages of growth and development.
 - a. Review the reproductive system.
 - b. Identify physical, mental, emotional, and social development characteristics of each of Erikson's stages of development from infancy through late adulthood.

- c. Identify Maslow's Hierarchy of Human Needs.
- d. Discuss cultural practices that affect needs.
- 32. Describe careers in the field of dentistry.
 - a. Compare job descriptions in the field.
 - b. Differentiate educational levels and credentials required.
- 33. Explain procedures related to dentistry.
 - a. Explain, recognize, and use dental terminology in dental charting.
 - b. Explain proper techniques of brushing and flossing.
 - c. Differentiate between dentition of the child and adult.
 - d. Compare the location, structure, and function of teeth.
 - e. Recognize methods of prevention and detection of caries and periodontal disease.
 - f. Discuss chairside assistance.
 - g. Set up a basic dental tray.
 - h. Discuss maintenance of the treatment room.
 - i. Identify types of restorative material.
 - j. Review basic methods of cleaning and sterilizing instruments.
 - k. Describe the basic method of making a dental impression and model.
 - l. Discuss how to place dental radiographs in proper sequence on a view box.