

Florida Department of Education
Curriculum Framework

Program Title: Dental Hygiene
Career Cluster: Health Science

AS

CIP Number	1351060200
Program Type	College Credit
Standard Length	88 credit hours
CTSO	HOSA: Future Health Professionals
SOC Codes (all applicable)	29-2021 Dental Hygienists
CTE Program Resources	http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/program-resources.stml

Purpose

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the Health Science career cluster; provides technical skill proficiency, and includes competency-based applied learning that contributes to the academic knowledge, higher-order reasoning and problem-solving skills, work attitudes, general employability skills, technical skills, and occupation-specific skills, and knowledge of all aspects of Health Science career cluster.

This program is designed to prepare students for employment as dental hygienists SOC Code-29-2021 Dental Hygienist or to provide supplemental training for persons previously or currently employed in this occupation.

The content includes but is not limited to patient assessment, dental hygiene instrumentation and direct patient care services (scaling/root planing/curettage/radiographs/oral hygiene-instruction/expanded functions), community dental health, dental office emergencies, infection control, special needs dental care, office management, employability skills, ethics and jurisprudence.

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

Program Structure

This program is a planned sequence of instruction consisting of 88 credit hours.

Regulated Programs

Students are prepared to take the Dental Hygiene National Board and state licensure examinations. Dental Hygiene Programs accredited by the American Dental Association Commission on Dental Accreditation are required to implement clinical experiences outlined in these program standards.

Standards

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

- 01.0 Demonstrate knowledge of the dental health care delivery system and dental health occupations
- 02.0 Use oral and written communication skills in creating, expressing and interpreting information and ideas
- 03.0 Describe the legal and ethical responsibilities of the dental health care worker
- 04.0 Demonstrate an understanding of general anatomy and physiology and apply wellness and disease concepts
- 05.0 Demonstrate the importance of health, safety, and environmental management systems in dental organizations and their importance to organizational performance and regulatory compliance
- 06.0 Recognize and respond to emergency situations
- 07.0 Use information technology tools
- 08.0 Explain the importance of employability skills
- 09.0 Demonstrate knowledge of blood borne diseases, including HIV/AIDS
- 10.0 Demonstrate leadership and teamwork skills needed to accomplish team goals and objectives
- 11.0 Perform expanded functions for the dental hygienist as permitted by Florida Statutes/Law
- 12.0 Perform dental office procedures
- 13.0 Identify, describe, maintain and utilize dental instruments and equipment
- 14.0 Identify and perform dental and radiographic procedures
- 15.0 Identify properties and uses, and manipulate dental materials
- 16.0 Describe the legal and ethical responsibilities of the dental hygienist
- 17.0 Identify and explain the formation and function of the head, neck, dental structures and tissues including pathological conditions of the human body in relation to the oral cavity
- 18.0 Identify and explain principles of microbiology, disease transmission, disease prevention, and perform infection control procedures
- 19.0 Identify and explain usage, administration, indications, contraindications, adverse reactions and precautions of pharmaceutical and anesthetic agents used in the treatment of dental disease
- 20.0 Describe principles and perform techniques of preventive dentistry
- 21.0 Perform patient assessment
- 22.0 Perform direct patient services and competently provide dental hygiene process of care for the child, adolescent, adult and geriatric patient as well as the special needs patient
- 23.0 Implement and evaluate community health interventions and research activities

**Florida Department of Education
Student Performance Standards**

Program Title: Dental Hygiene
CIP Number: 1351060200
Program Length: 88 credit hours
SOC Code(s): 29-2021

The AS degree requires the inclusion of a minimum of 15 credits of general education coursework according to SACS, and it must be transferable according to Rule 6A-14.030 (2), F.A.C. At the completion of this program, the student will be able to:
 Dental Hygiene Students completing the following intended outcomes (1- 23) have met the requirements of the Dental Hygiene Program and qualify to make application for the Dental Hygiene National Board and state licensure examinations.

01.0	Demonstrate knowledge of the dental health care delivery system and dental health occupations – The student will be able to:
01.01	Identify the basic components of the dental health care delivery system including public, private, government and non-profit.
01.02	Describe the various types of dental health care providers and the range of services available.
01.03	Describe the composition and functions of a dental health care team
01.04	Identify the general roles and responsibilities of the individual members of the dental health care team.
01.05	Identify the roles and responsibilities of the consumer within the dental healthcare system.
01.06	Explain the cause and effects of factors that influence the current delivery system of dental healthcare.
01.07	Explain the impact of emerging issues including technology, epidemiology, bioethics and socioeconomics on the dental healthcare delivery system.
01.08	Discuss the history of dentistry and dental hygiene
02.0	Use oral and written communication skills in creating, expressing and interpreting information and ideas – The student will be able to:
02.01	Apply basic speaking and active listening skills including reflection, restatement, and clarification techniques.
02.02	Develop basic observational skills and related documentation strategies in written and oral form.
02.03	Identify characteristics of successful and unsuccessful communication including communication styles and barriers.
02.04	Compose written communication using correct spelling, grammar,-formatting and confidentiality and specific formats of letter writing.

02.05	Recognize components of medical and dental terminology and abbreviations.
02.06	Recognize the importance of courtesy and respect for patients and other health care workers and maintain good interpersonal relationships.
02.07	Recognize the importance of patient education regarding dental and health care.
02.08	Adapt communication skills to meet various levels of understanding and orientation of diversity including but not limited to sexual orientation, gender orientation, disability, age, culture, economics, ethnicity and religion.
02.09	Identify psychological considerations influencing communication and behaviors.
03.0	Describe the legal and ethical responsibilities of the dental health care worker – The student will be able to:
03.01	Identify areas of Florida Statute 466 and Rule 64B5-16 FAC and Rule 64B5-25 FAC applicable to practice by the dental health workers.
03.02	Explain practices that could result in malpractice, liability, negligence, abandonment, false imprisonment and fraud.
03.03	Demonstrate procedures for accurate documentation and record keeping.
03.04	Interpret healthcare facility policy and procedures.
03.05	Explain the patients' "Bill of Rights."
03.06	Identify and implement standards of the Health Insurance Portability and Accountability Act (HIPAA).
03.07	Distinguish between express, implied and informed consent.
03.08	Explain the laws governing harassment, labor and employment.
03.09	Differentiate between legal and ethical issues in dentistry.
03.10	Describe a Code of Ethics consistent with the dental hygiene profession.
03.11	Identify and compare personal, professional and organizational ethics.
03.12	Recognize the limits of authority and responsibility of dental health care workers including legislated scope of practice.
03.13	Recognize and report illegal and/or unethical practices of dental health care workers.
03.14	Recognize signs of abuse and neglect.
03.15	Demonstrate an understanding of reporting requirements for all types of abuse including domestic violence and neglect for all ages.
03.16	Identify resources for victims of domestic violence.
03.17	Explain risk management.

04.0	Demonstrate an understanding of general anatomy and physiology and apply wellness and disease concepts – The student will be able to:
04.01	Develop a basic understanding of the structure and function of the body systems.
04.02	Identify common disorders related to each of the body systems.
04.03	Explain basic concepts of positive self-image, wellness, and stress.
04.04	Describe a wellness and stress control plan that can be used in personal and professional life.
05.0	Demonstrate the importance of health, safety, and environmental management systems in dental organizations and their importance to organizational performance and regulatory compliance – The student will be able to:
05.01	Describe personal and jobsite safety rules and regulations that maintain safe and healthy work environments.
05.02	Identify and describe methods in medical error reduction and prevention in the dental healthcare setting.
05.03	Demonstrate an understanding of personal safety procedures based on Occupations Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations (including standard precautions).
05.04	Recognize Safety Data Sheets (SDS) and Globally Harmonized System (GHS) labels and comply with safety signs, symbols and labels.
05.05	Describe procedures for the safe transport and transfer of patients.
05.06	Describe fire safety, disaster and evacuation procedures.
05.07	Explain emergency procedures to follow in response to workplace accidents.
05.08	Demonstrate handwashing and the use of personal protective equipment used in dentistry.
06.0	Recognize and respond to emergency situations – The student will be able to:
06.01	Take and record vital signs.
06.02	Describe legal parameters relating to the administration of emergency care.
06.03	Obtain and maintain training or certification in cardiopulmonary resuscitation (CPR), automated external defibrillator (AED), foreign body airway obstruction (FBAO) and first aid.
07.0	Use information technology tools – The student will be able to:
07.01	Define terms and demonstrate basic computer skills.
07.02	Interpret information from electronic medical documents.
08.0	Explain the importance of employability skills – The student will be able to:
08.01	Identify personal traits or attitudes desirable in a member of the healthcare team.

08.02	Exemplify basic professional standards of dental healthcare workers as they apply to hygiene, dress, language, confidentiality and behavior (i.e. telephone etiquette, courtesy and self-introductions).
08.03	Maintain a career portfolio to document knowledge, skills, and experience.
08.04	Develop a professional resume
08.05	Conduct a job search and complete a job application form correctly.
08.06	Demonstrate effective job interview techniques
08.07	Examine levels of education, credentialing requirements including licensure and certification, employment opportunities, workplace environments and career growth potential.
08.08	Examine licensing, certification, and industry credentialing requirements.
09.0	Demonstrate knowledge of blood borne diseases, including HIV/AIDS – The student will be able to:
09.01	Recognize emerging diseases and disorders.
09.02	Demonstrate knowledge of transmission and treatment of diseases caused by blood borne pathogens including Hepatitis B.
09.03	Identify "at risk" behaviors that promote the spread of diseases caused by blood borne pathogens and the public education necessary to combat the spread of these diseases.
09.04	Identify community resources and services available to the individuals with diseases caused by blood borne pathogens.
09.05	Apply infection control techniques designed to prevent the spread of diseases caused by blood borne pathogens to the care of all patients following Centers for Disease Control (CDC) guidelines.
09.06	Demonstrate knowledge of the legal aspects of treating patients with HIV+ infection and AIDS, including testing.
10.0	Demonstrate leadership and teamwork skills needed to accomplish team goals and objectives – The students will be able to:
10.01	Analyze attributes and attitudes of an effective leader.
10.02	Recognize factors and situations that may lead to conflict.
10.03	Demonstrate effective problem-solving techniques for managing team conflict.
11.0	Perform expanded functions for the dental hygienist as permitted by Florida Statutes/Law--The student will be able to:
11.01	Perform expanded functions as permitted by the Florida Statutes/Law pertaining to the practice of dental hygiene.
12.0	Perform dental office procedures--The student will be able to:
12.01	Maintain appointment control with effective time management skills.
12.02	Assess, create, modify, and maintain an active recare system.

12.03	Prepare and maintain accurate patient records.
12.04	Prepare and maintain dental office inventory control and purchasing.
12.05	Demonstrate skills on office equipment to include computers and dental office management systems.
12.06	Identify correct code on dental procedures and nomenclature (CDT Codes).
12.07	Maintain a positive office environment.
12.08	Receive and dismiss patients and visitors.
12.09	Demonstrate reporting and recording of adverse events.
13.0	Identify, describe, maintain and utilize dental instruments and equipment--The student will be able to:
13.01	Identify various types, functions and operations of dental operatory and laboratory equipment.
13.02	Maintain dental operatory equipment and instruments including proper sharpening techniques.
13.03	Identify types and functions of dental hygiene instruments.
14.0	Identify and perform dental and radiographic procedures--The student will be able to:
14.01	Describe history, physics and biological effects of ionizing radiation.
14.02	Identify parts of the imaging machine including accessories.
14.03	Demonstrate radiologic health protection techniques.
14.04	Perform processing procedures that include application and care.
14.05	Place image receptors and expose dental images that could include chemical emulsion, digital or phosphor plates, and understand the relevance of exposure settings, times and patient record keeping.
14.06	Identify radiographic anatomical landmarks.
14.07	Mount radiographic surveys and/or save and store digital files.
15.0	Identify properties and uses, and manipulate dental materials--The student will be able to:
15.01	Identify properties and uses and manipulation of gypsum.
15.02	Identify properties and uses and manipulation of restorative materials.
15.03	Identify properties and uses and manipulation of dental cements.

15.04	Identify properties and uses and manipulation of impression materials.
15.05	Identify properties and uses and manipulation of acrylics and/or thermoplastics.
15.06	Identify dental laboratory procedures that may include the fabrication of casts, custom trays, temporary crowns and/or bridges.
15.07	Clean removable dental appliances.
16.0	Describe the legal and ethical responsibilities of the dental hygienist--The student will be able to:
16.01	Define commonly used legal vocabulary relating to dentistry.
16.02	Describe ethical considerations/obligations in the dental team-patient relationship.
16.03	Explain risk management and root cause analysis.
16.04	Identify areas of Florida Statute 466 and Rule chapter 64B5 applicable to dentistry and dental hygiene.
16.05	Apply self-assessment skills to prepare for life-long learning.
16.06	Apply ethical principles, legal and regulatory concepts to resolve ethical dilemmas.
17.0	Identify and explain the formation and function of the head, neck, dental structures and tissues including pathological conditions of the human body in relation to the oral cavity--The student will be able to:
17.01	Identify structures and functions of head and neck anatomy including bones, muscles, sinuses, salivary glands, lymph nodes, nerves and blood vessels.
17.02	Identify embryonic development of head, oral cavity, and teeth.
17.03	Describe the histological components of the head, oral cavity, and elements of the teeth and supporting structures.
17.04	Describe and differentiate between normal and malocclusion.
17.05	Identify the elements of the chemical basis of life, cellular metabolism and the structure of the major tissue types of the human body.
17.06	Describe the metabolism of nutrient foods, vitamins and minerals by the human body and pathological conditions related to nutrient deficiencies.
17.07	Identify anatomical structures and physiological function of the principle systems of the human body including the skeletal, muscular, integumentary, circulatory, lymphatic, endocrine, digestive, reproductive, respiratory, urinary, and nervous systems.
17.08	Recognize and describe oral pathological conditions related to the teeth and their supporting structures.
17.09	Identify teeth and their landmarks, and the morphological characteristics of each individual tooth.
17.10	Recognize and describe developmental anomalies related to the teeth, face, and oral structures.
18.0	Identify and explain principles of microbiology, disease transmission, disease prevention, and perform infection control procedures--The

student will be able to:	
18.01	Differentiate between pathogenic and non-pathogenic microorganisms.
18.02	Describe pathogens and modes of disease transmission.
18.03	Differentiate between aseptic and non-aseptic environments.
18.04	Perform aseptic handwashing technique including use of antiseptic gels.
18.05	Describe, apply and differentiate methods of cleaning, disinfection and sterilization
18.06	Recognize the need for and proper precautions for the prevention of disease transmission during all dental related procedures.
18.07	Identify the role of prokaryotic cells, eukaryotic cells, viruses, and bacteria in the infections and mechanisms of diseases.
18.08	Identify the genetics of microbes including replication of DNA and protein synthesis, mutation and gene transfer.
19.0	Identify and explain usage, administration, indications, contraindications, adverse reactions and precautions of pharmaceutical and anesthetic agents used in the treatment of dental disease--The student will be able to:
19.01	Identify drug requirements, agencies, and regulations.
19.02	Record a drug prescription on a patient's chart.
19.03	Identify drug actions, side effects, indications and contraindications; verify with Physician's Desk Reference or its equivalent.
19.04	Describe the process of drug metabolism.
19.05	Identify common drugs used in dentistry.
19.06	Identify pharmaceuticals and medicaments used in the oral cavity.
19.07	Recognize specific conditions in the oral cavity caused by pharmaceutical agents.
19.08	Identify properties of anesthetics.
19.09	Identify the tissues innervated by each of the nerves associated with dental local and topical anesthesia.
19.10	Describe properties and mode of action of an effective local and topical anesthetic.
19.11	List systemic considerations in choosing a local and topical anesthetic.
19.12	Describe methods of administering local and applying topical anesthetics.
19.13	List potential local and systemic adverse reactions associated with local anesthetic administration.

19.14	Prepare armamentarium for administering local anesthetics for recognized techniques.
19.15	Describe the monitoring process and identify precautions in the use of nitrous oxide-oxygen inhalation analgesia.
20.0	Describe principles and perform techniques of preventive dentistry--The student will be able to:
20.01	Identify, communicate, and instruct patients on applicable methods of preventive dentistry that utilize:
20.01.01	risk assessment
20.01.02	evidence based learning
20.01.03	individualized preventive care plans
20.01.04	counseling
20.01.05	training regarding health status and rationale for preventive care plan.
20.02	Identify properties and indications for use of anticariogenic treatments utilized in the community, home, and office.
20.03	Identify and demonstrate proper auxiliary aides based on individual patient needs.
20.04	Identify and describe deficiencies that manifest symptoms in the oral cavity and communicate applicable therapies.
20.05	Formulate and present diets to address specific dental needs and provide nutritional counseling.
21.0	Perform patient assessment--The student will be able to:
21.01	Take, record, and correlate medical/dental history with dental hygiene treatment plan and services to be performed.
21.02	Take, record, and correlate vital sign observations with dental hygiene treatment plan and services to be performed.
21.03	Assess vital signs in order to reduce incidence of patient complications and medical emergencies.
21.04	Perform record and correlate extraoral and intraoral examination findings with dental hygiene treatment plan and patient services to be performed.
21.05	Observe and record existing restorations as well as conditions and suspected pathologies of hard and soft tissues using the appropriate armamentarium.
21.06	Conduct comprehensive periodontal examination including pocket depth, attachment level, recession, mobility, furcations, radiographic findings, and tissue health.
21.07	Consult with dentist and physicians to verify dental and medical information and develop the treatment plan to be implemented.
21.08	Interpret and correlate dental radiographs and dental charting with dental hygiene treatment plan.
21.09	Perform soft tissue reassessment and evaluate the effects of initial dental hygiene therapy and make appropriate therapy modifications or referrals.
21.10	Recognize systemic diseases from oral manifestations.
21.11	Record diagnosis made by dentist.

21.12	Recognize and respond appropriately to contraindications for dental treatment found in medical and dental history.
21.13	Identify and assess dental office emergencies and follow the appropriate protocol for treatment.
22.0	Perform direct patient services and competently provide dental hygiene process of care for the child, adolescent, adult and geriatric patient as well as the special needs patient --The student will be able to:
22.01	Detect calculus for removal and differentiate between deposits and other causes of tooth surface roughness.
22.02	Perform non-surgical periodontal debridement (scaling and root planing) using appropriate armamentarium and instrumentation technique.
22.03	Manipulate mechanical instruments for hard and soft deposit removal, i.e. ultrasonic, air-powder polishing system and/or slow-speed hand-piece.
22.04	Perform oral prophylaxis.
22.05	Demonstrate knowledge of soft tissue curettage.
22.06	Apply desensitizing and/or chemotherapeutic agents where applicable.
22.07	Communicate to patients' appropriate post-operative instructions and correctly select all necessary self-care therapies intended to restore and maintain the individual patient's soft tissue health for long term care.
22.08	Provide and communicate dietary counseling for health maintenance and specific healing needs.
22.09	Provide and communicate recommendations for patient use of caries prevention agents.
22.10	Provide a comprehensive collection of patient data to identify the physical and oral health status as well as risk factors that could affect patient care and healing.
22.11	Provide analysis of assessment findings and use of critical thinking in order to address the patient's dental hygiene treatment needs.
22.12	Establish a dental hygiene care plan that reflects the expected outcomes and treatment interventions to facilitate optimal oral health.
22.13	Present proposed treatment and procedures to the patient and obtain appropriate informed consent signatures prior to rendering patient care services.
22.14	Provide patient-centered treatment and evidence-based care in a manner minimizing risk and optimizing oral health.
22.15	Measure the extent to which expected outcomes identified in the dental hygiene care plan are achieved.
22.16	Complete an accurate recording of all documentation relevant to patient care.
23.0	Implement and evaluate community health interventions and research activities--The student will be able to:
23.01	Demonstrate competence in assessment, planning, implementation and evaluation of community health interventions.
23.02	Formulate and analyze research methodologies for community health interventions.

23.03 Perform a literature search and interpret research findings in scientific literature.

23.04 Apply research findings to dental hygiene care delivery.

23.05 Apply statistical analysis and evidence based research to health trends and community interventions.

23.06 Collaborate and perform a needs assessment with community partners.

23.07 Differentiate scientific value of literature found in both electronic and traditional mediums.

Additional Information

Laboratory Activities

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

Equipment and supplies should be provided to enhance hands-on experiences for students. In depth clinical information and requirements can be found in the Commission on Dental Accreditation Dental Hygiene Standards.

Special Notes

General education content must include oral and written communications, Psychology and Sociology.

Biomedical science content must include content in anatomy, physiology, chemistry, biochemistry, microbiology, immunology, general pathology and/or pathophysiology, nutrition and pharmacology.

Dental sciences content must include tooth morphology, head, neck and oral anatomy, oral embryology and histology, oral pathology, radiography, periodontology, pain management, and dental materials.

Graduates must be competent in providing the dental hygiene process of care which includes: Assessment, Planning, Implementation, and Evaluation.

This program meets the Department of Health HIV/AIDS, domestic violence education and prevention of medical errors requirements.

If students in this program are seeking a licensure, certificate or registration through the Department of Health, please refer to 456.0635 F.S. for more information on disqualification for a license, certificate, or registration through the Department of Health.

Outcomes 01-11 are referred to as the Health Careers Core and do not have to be completed if the student has previously completed the Core in another health science program. The Core should be taken first or concurrently with the first course in the program. Following the successful completion of the core, the student is eligible to take the National Health Care Foundation Skill Standards Assessment with instructor approval and the completion of a portfolio.

Career and Technical Student Organization (CTSO)

HOSA: Future Health Professionals is the intercurricular career and technical student organization providing leadership training and reinforcing specific career and technical skills. Career and Technical Student Organizations provide activities for students as an integral part of the instruction offered.

Accommodations

Federal and state legislation requires the provision of accommodations for students with disabilities to meet individual needs and ensure equal access. Postsecondary students with disabilities must self-identify, present documentation, request accommodations if needed, and develop a plan with their counselor and/or instructors. Accommodations received in postsecondary education may differ from those received in secondary education. Accommodations change the way the student is instructed. Students with disabilities may need accommodations in such areas as instructional methods and materials, assignments and assessments, time demands and schedules, learning environment, assistive technology and special communication systems. Documentation of the accommodations requested and provided should be maintained in a confidential file.

Additional Resources

For additional information regarding articulation agreements, Bright Futures Scholarships, Fine Arts/Practical Arts Credit and Equivalent Mathematics and Equally Rigorous Science Courses please refer to:

<http://www.fldoe.org/academics/career-adult-edu/career-tech-edu/program-resources.stml>