

## Program Planning Guide

### Dental Hygiene

Credential: Associate in Applied Science Degree in Dental Hygiene (A45260)

The Dental Hygiene curriculum provides individuals with the knowledge and skills to access, plan, implement, and evaluate dental hygiene care for the individual and the community.

Students will learn to prepare the operator, take patient histories, note abnormalities, plan care, teach oral hygiene, clean teeth, take x-rays, apply preventive agents, complete necessary chart entries, and perform other procedures related to dental hygiene care.

Graduates of this program may be eligible to take national and state/regional examinations for licensure which are required to practice dental hygiene. Employment opportunities include dental offices, clinics, schools, public health agencies, industry, and professional education.

**See the College Catalog and the Health Science Programs Admissions packet for details regarding:** Limited Enrollment Curriculum; Entrance Standards; Required Admissions Criteria and Requirements for Acceptance.

[\(Dental Programs Candidate-Rating-Sheet\)](#)

**Program Length:** 5 semesters

**Career Pathway Options:** Associate in Applied Science in Dental Hygiene

**Program Site(s):** Dental Center; Day Program

### Suggested Course Schedule

1 <sup>st</sup> Semester (Fall)		Hours				Grade	Semester	Notes
		Class	Lab	Clinic	SHC			
BIO 163	Human Anat. & Physiology w/Lab	4	2	0	5			Seated
DEN 110	Orofacial Anatomy	2	2	0	3			Seated
DEN 111	Infection/Hazard Control	2	0	0	2			Online
DEN 112	Dental Radiology	2	3	0	3			Seated
DEN 120	Dental Hygiene Preclinical Lecture	2	0	0	2			Seated
DEN 121	Dental Hygiene Preclinical Lab	0	6	0	2			Seated
ACA 122	College Transfer Success	0	2	0	1			Online
		12	15	0	18			

2 <sup>nd</sup> Semester (Spring)		Hours				Grade	Semester	Notes
		Class	Lab	Clinic	SHC			
BIO 180	Biological Chemistry	3	0	0	3			Seated
DEN 123	Nutrition/Dental Health	2	0	0	2			Online
DEN 124	Periodontology	2	0	0	2			Online
DEN 130	Dental Hygiene Theory I	2	0	0	2			Seated
DEN 131	Dental Hygiene Clinic I	0	0	9	3			Seated
DEN 223	Dental Pharmacology	2	0	0	2			Seated
DEN 224	Materials & Procedures	1	3	0	2			Seated
		12	3	9	16			

3 <sup>rd</sup> Semester (Summer)		Hours				Grade	Semester	Notes
		Class	Lab	Clinic	SHC			
DEN 140	Dental Hygiene Theory II	1	0	0	1			Seated
DEN 141	Dental Hygiene Clinic II	0	0	6	2			Seated
ENG 111	Writing and Inquiry	3	0	0	3			Online or Seated
DEN 125	Dental Office Emergencies	0	2	0	1			Hybrid
		4	2	6	7			

## Dental Hygiene, Associate in Applied Science Degree (A45260)

~ 2 ~

4 <sup>th</sup> Semester (Fall)		Hours				Grade	Semester	Notes
		Class	Lab	Clinic	SHC			
BIO 175	General Microbiology	2	2	0	3			Seated
DEN 220	Dental Hygiene Theory III	2	0	0	2			Seated
DEN 221	Dental Hygiene Clinic III	0	0	12	4			Seated
DEN 222	General and Oral Pathology	2	0	0	2			Seated
DEN 232	Community Dental Health	2	3	0	3			Hybrid
	Humanities/Fine Arts Elective	3	0	0	3			Online or Seated
		11	2	15	17			

5 <sup>th</sup> Semester (Spring)		Hours				Grade	Semester	Notes
		Class	Lab	Clinic	SHC			
COM 120	Interpersonal Communication	3	0	0	3			Seated
DEN 230	Dental Hygiene Theory IV	1	0	0	1			Seated
DEN 231	Dental Hygiene Clinic IV	0	0	12	4			Seated
DEN 233	Professional Development	2	0	0	2			Online
SOC 240	Social Psychology	3	0	0	3			Online or Seated
		9	0	12	13			

Total Semester Hours Credit: 71

### Course Descriptions:

#### **ACA 122 College Transfer Success 0-2-0-1**

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop and academic plan to transition successfully to senior institutions.

#### **BIO 163 Basic Anat & Physiology 4-2-0-5**

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships.

#### **BIO 175 General Microbiology 2-2-0-3**

*Prerequisites: Take One: BIO 110, BIO 111, BIO 163, BIO 165, or BIO 168*

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance, and immunity. Upon completion, students should be able to demonstrate knowledge of microorganisms and the disease process as well as aseptic and sterile techniques. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

#### **BIO 180 Biological Chemistry 2-2-0-3**

*Local Prerequisite: Completion of a high school chemistry course and a CCCC-administered proficiency exam; completion of a college chemistry course; or by permission of instructor.*

This course provides an introduction to basic biochemical processes in living systems. Topics include properties of carbohydrates, lipids, proteins, nucleic acids, vitamins, and buffers, with emphasis on biosynthesis, degradation, function, and equilibrium. Upon completion, students should be able to demonstrate an understanding of fundamental biochemical concepts. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

#### **COM 120 Intro Interpersonal Com 3-0-0-3**

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations. This course has been approved for transfer under the CAA and ICAA as a general education course in English Composition.

# Dental Hygiene, Associate in Applied Science Degree (A45260)

~ 3 ~

<b>DEN 110</b>	<b>Orofacial Anatomy</b>	<b>2-2-0-3</b>	periodontal diseases. Upon completion, students should be able to describe, compare, and contrast techniques involved in periodontal/maintenance therapy, as well as patient care management.
<p>This course introduces the structures of the head, neck, and oral cavity. Topics include tooth morphology, head and neck anatomy, histology, and embryology. Upon completion, students should be able to relate the identification of normal structures and development to the practice of dental assisting and dental hygiene.</p>			
<b>DEN 111</b>	<b>Infection/Hazard Control</b>	<b>2-0-0-2</b>	<b>DEN 125</b> <b>Dental Office Emergencies</b> <b>0-2-0-1</b>
<p>This course introduces the infection and hazard control procedures necessary for the safe practice of dentistry. Topics include microbiology, practical infection control, sterilization and monitoring, chemical disinfectants, aseptic technique, infectious diseases, OSHA standards, and applicable North Carolina laws. Upon completion, students should be able to understand infectious diseases, disease transmission, infection control procedures, biohazard management, OSHA standards, and applicable North Carolina laws.</p>			
<b>DEN 112</b>	<b>Dental Radiography</b>	<b>2-3-0-3</b>	<p>This course provides a study of the management of dental office emergencies. Topics include methods of prevention, necessary equipment/drugs, medicolegal considerations, recognition and effective initial management of a variety of emergencies. Upon completion, the student should be able to recognize, assess and manage various dental office emergencies and activate advanced medical support when indicated.</p>
<p>This course provides a comprehensive view of the principles and procedures of radiology as they apply to dentistry. Topics include techniques in exposing, processing, and evaluating radiographs, as well as radiation safety, quality assurance, and legal issues. Upon completion, students should be able to demonstrate proficiency in the production of diagnostically acceptable radiographs using appropriate safety precautions.</p>			
<b>DEN 120</b>	<b>Dental Hyg Preclinic Lec</b>	<b>2-0-0-2</b>	<b>DEN 130</b> <b>Dental Hygiene Theory I</b> <b>2-0-0-2</b>
<p>This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of the recall patients with gingivitis or light deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.</p>			
<p><i>Corequisites: DEN 121</i></p>			
<p>This course introduces preoperative and clinical dental hygiene concepts. Emphasis is placed on the assessment phase of patient care as well as the theory of basic dental hygiene instrumentation. Upon completion, students should be able to collect and evaluate patient data at a basic level and demonstrate knowledge of dental hygiene instrumentation.</p>			
<b>DEN 121</b>	<b>Dental Hygiene Precl Lab</b>	<b>0-6-0-2</b>	<p><i>Prerequisites: DEN 120</i> <i>Corequisites: DEN 131</i></p>
<p>This course provides the opportunity to perform clinical dental hygiene procedures discussed in DEN 120. Emphasis is placed on clinical skills in patient assessment and instrumentation techniques. Upon completion, students should be able to demonstrate the ability to perform specific preclinical procedures.</p>			
<b>DEN 123</b>	<b>Nutrition/Dental Health</b>	<b>2-0-0-2</b>	<b>DEN 131</b> <b>Dental Hygiene Clinic I</b> <b>0-0-9-3</b>
<p>This course introduces basic principles of nutrition with emphasis on nutritional requirements and their application to individual patient needs. Topics include the study of the food pyramid, nutrient functions, Recommended Daily Allowances, and related psychological principles. Upon completion, students should be able to recommend and counsel individuals on their food intake as related to their dental health.</p>			
<b>DEN 124</b>	<b>Periodontology</b>	<b>2-0-0-2</b>	<p><i>Prerequisites: DEN 121</i></p>
<p>This course provides an in-depth study of the periodontium, periodontal pathology, periodontal monitoring, and the principles of periodontal therapy. Topics include periodontal anatomy and a study of the etiology, classification, and treatment modalities of</p>			
<p>periodontal diseases. Upon completion, students should be able to describe, compare, and contrast techniques involved in periodontal/maintenance therapy, as well as patient care management.</p>			
<p>This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of the recall patients with gingivitis or light deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.</p>			
<p>This course introduces principles in treatment modification. Topics include modification of treatment for pain management and advanced radiographic interpretation. Upon completion, students should be able to differentiate necessary treatment modifications and radiographic abnormalities.</p>			
<p>This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of patients with early periodontal disease and subgingival deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.</p>			
<p>This course introduces advanced principles of patient care. Topics include advanced periodontal debridement, subgingival irrigation, air polishing, special needs and case presentations. Upon completion, students should be able to demonstrate knowledge of methods of treatment and management of periodontally compromised and special needs patients.</p>			

**DEN 221                      Dental Hygiene Clinic III                      0-0-12-4**

*Prerequisites: DEN 141*

*Corequisites: DEN 220*

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of patients with moderate to advanced periodontal involvement and moderate deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

**DEN 222                      General & Oral Pathology                      2-0-0-2**

*Prerequisites: Take One: BIO 163, BIO 165 or BIO 168*

This course provides a general knowledge of oral pathological manifestations associated with selected systemic and oral diseases. Topics include developmental and degenerative diseases, selected microbial diseases, specific and nonspecific immune and inflammatory responses with emphasis on recognizing abnormalities. Upon completion, students should be able to differentiate between normal and abnormal tissues and refer unusual findings to the dentist for diagnosis.

**DEN 223                      Dental Pharmacology                      2-0-0-2**

*Prerequisites: Take One: BIO 163, BIO 165 or BIO 168*

This course provides basic drug terminology, general principles of drug actions, dosages, routes of administration, adverse reactions, and basic principles of anesthesiology. Emphasis is placed on knowledge of drugs in overall understanding of patient histories and health status. Upon completion, students should be able to recognize that each patient's general health or drug usage may require modification of the treatment procedures.

**DEN 224                      Materials and Procedures                      1-3-0-2**

*Prerequisites: DEN 111*

This course introduces the physical properties of materials and related procedures used in dentistry. Topics include restorative and preventive materials, fabrication of casts and appliances, and chairside functions of the dental hygienist. Upon completion, students should be able to demonstrate proficiency in the laboratory and/or clinical application of routinely used dental materials and chairside functions.

**DEN 230                      Dental Hygiene Theory IV                      1-0-0-1**

*Prerequisites: DEN 220*

*Corequisites: DEN 231*

This course provides an opportunity to increase knowledge of the profession. Emphasis is placed on dental specialties, technological advances, and completion of a case presentation. Upon completion, students should be able to demonstrate knowledge of various disciplines of dentistry, technological advances and principles of case presentations.

**DEN 231                      Dental Hygiene Clinic IV                      0-0-12-4**

*Prerequisites: DEN 221*

*Corequisites: DEN 230*

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on periodontal maintenance and on treating patients with moderate to advanced/refractory periodontal disease. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment.

**DEN 232                      Community Dental Health                      2-3-0-3**

This course provides a study of the principles and methods used in assessing, planning, implementing, and evaluating community dental health programs. Topics include epidemiology, research methodology, biostatistics, preventive dental care, dental health education, program planning, and financing and utilization of dental services. Upon completion, students should be able to assess, plan, implement, and evaluate a community dental health program.

**DEN 233                      Professional Development                      2-0-0-2**

This course includes professional development, ethics, and jurisprudence with applications to practice management. Topics include conflict management, state laws, resumes, interviews, and legal liabilities as health care professionals. Upon completion, students should be able to demonstrate the ability to practice dental hygiene within established ethical standards and state laws.

**ENG 111                      Writing and Inquiry                      3-0-0-3**

*Prerequisites: DRE 098 or appropriate placement test scores.*

This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. This course has been approved for transfer under the CAA and ICAA as a general education course in English Composition.

**SOC 240                      Social Psychology                      3-0-0-3**

This course examines the influence of culture and social groups on individual behavior and personality. Emphasis is placed on the process of socialization, communication, conformity, deviance, interpersonal attraction, intimacy, race and ethnicity, small group experiences, and social movements. Upon completion, students should be able to identify and analyze cultural and social forces that influence the individual in a society. This course has been approved for transfer under the CAA and ICAA as a general education course in Social/Behavioral Sciences.