

# Central Carolina Community College

## 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 operatory, 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.

#### Limited Enrollment Curriculum:

Dental Hygiene is a limited enrollment curriculum and program applicants are accepted based upon a selective admission process. Admission criteria for the Dental Hygiene program are reviewed annually and are subject to change.

Entrance Standards: See General Admission Standards in the catalog (Gen. Info section).

#### Program Specific Entrance Standards:

##### Selective, Merit-Based Admission Process

A student can apply to the Dental Hygiene program once eligibility requirements have been met. Acceptance is based on a competitive selective admission process. Students are not allowed to enter into the Central Carolina Community College's Dental Hygiene curriculum if they have had two previous entries into any Dental Hygiene program.

Prospective students must attend a mandatory information session prior to submitting an application to the Dental Hygiene program. Applicants are required to contact the Dental Programs Admissions Counselor to obtain a Dental Program Application and current set of Dental Hygiene Admission Guidelines, and to be scheduled into a mandatory information session.

After an applicant has completed all general college admission requirements and all Dental Hygiene entrance required criteria, he/she must submit a completed Dental Program application. Applicants who have completed the Dental Program Application by the deadline will be ranked by tallied points and offered admission in order of ranking. A second date may be announced for additional applications to be considered for unfilled spaces. A student can apply to only one of the CCCC dental programs during any designated selection time period. It is the applicants' responsibility to ensure that they are aware of all regulations and that all requirements are met by the established deadline.

#### Placement Test Scores

Placement Tests and all developmental courses must be taken prior to admittance to DH program. All test scores must be less than five years old or the student must have earned a "C" or better in the corresponding developmental courses or have received transfer credit for ENG 111 and MAT courses level 110 or above in the last semester. Each applicant should earn at least the minimum scores on the CPT placement test or ACT or SAT or have completed the developmental requirements for reading, English, arithmetic or algebra. Minimum scores required to place into ENG 111 and MAT 115 are as follows:

##### ENG 111 placement:

CPT Reading score of 80 or ACT score of 18 or SAT verbal score of 450 or completion of developmental reading requirements.  
CPT English score of 86 or ACT score of 18 or SAT verbal score of 450 or completion of developmental English requirements.

##### MAT 115 placement:

CPT Arithmetic score of 55 or ACT score of 18 or SAT verbal score of 450 or completion of developmental arithmetic requirements.  
CPT Algebra score of 55 or ACT score of 18 or SAT verbal score of 450 or completion of developmental algebra requirements.

#### GPA

Students must have a 2.0 semester and a 2.5 cumulative GPA at the time of making application to the program and maintain a 2.5 GPA at the time of entering program from a secondary or post-secondary institution.

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### HOBET (Health Occupations Basic Entrance Test)

All required college placement tests or developmental courses must be successfully completed before the applicant may attempt the Health Occupation Basic Entrance Test (HOBET). There is a fee required to take the Health Occupations Basic Entrance Test (HOBET).

The HOBET will be administered on scheduled testing dates at student's expense. Each applicant may take the exam twice. Only one retest is allowed after a 6-month waiting period with documented remediation. Remediation options are as follows: developmental courses, college credit courses, and/or continuing education courses or other strategies related to the subject areas. Applicants must meet the minimal scores of 45 on the Essential Math and the Comprehensive Reading Skills of the HOBET are required.

### Pre-requisite Biology, Chemistry, Algebra and Computer Literacy

Applicants must have completed, or be in the process of completing, high school biology, chemistry, two units of math (one unit being Algebra I), and computer literacy with a grade "C" or better in each course.

BIO = any course with a BIO prefix will meet the requirement for Biology if not taken in high school

CHM = any course with a CHM prefix will meet the requirement for Chemistry if not taken in high school

Math = any course with a MAT prefix (one to include Algebra I) will meet the requirement for Math

Meet appropriate requirements for Computer Skills. Computer proficiency may be satisfied by completion of a high school computer course OR completion of a college level computer course. Proof of registration for these courses (if currently in progress) or official transcripts for completed courses must be submitted by application deadline. The GED math subtest will count as one unit of math for those who submit GED scores.

### The Test of English as a Foreign Language (TOEFL)

TOEFL scores are required for all Non-US Citizens as evidence of adequate proficiency in the English language. The exception to testing is foreign students from countries where English is the official language. The minimum acceptable paper-based TOEFL score is 550. The minimum acceptable computer-based TOEFL score is 213. This test is offered at multiple testing sites nationally and is at the student's expense.

### Medical Forms/Hepatitis B Shots

Applicants are required to submit a completed college approved student medical health form to the Dental Hygiene Program Director at least 45 days before entering the program. The student medical form must include satisfactory health history, physical examination, and immunization report. Failure to submit a completed medical form will result in loss of Dental Hygiene admission status and class space will be assigned to another applicant. NO student will be permitted to participate in clinic without having submitted a completed medical form. Hepatitis B shots (3 series shot) required through second series prior to the first Fall Semester and completed by the first Spring Semester.

### Adult/Infant/Child CPR

CPR Certification by the American Heart Association (AHA) or American Red Cross in Adult-Infant-Child CPR and AED for Healthcare Providers that includes both performance and testing of criteria is required prior to program entry. CPR Certification must be maintained while in program.

### Mandatory Acceptance Session

When notified of acceptance, applicants must attend a mandatory orientation session with the Dental Hygiene department.

### Liability/Malpractice Insurance

Insurance fees must be paid to the Business Office before entry into the program and each subsequent year enrolled.

### Re-admission or transfer into the Dental Hygiene program

The student must qualify under the admission criteria in effect at time of re-admission or transfer. A student may be required to re-enter a Dental Hygiene course earlier in the curriculum sequence if the student is lacking major content. All Dental Hygiene courses completed more than 3 years prior for re-admission or transfer must be repeated. Withdrawal or academic failure within the Dental Hygiene Program will require the student to reapply as a new student. Advanced placement is dependent upon space availability.

The Dental Hygiene Program Director will evaluate transferability of all Dental Hygiene courses. Transfer courses must be equivalent to courses required at the receiving college in both theory and clinical experiences. The student must provide copies of course syllabi and outlines for those Dental Hygiene courses taken to the department chairperson. Students lacking essential content may be

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required to audit a portion of a course, challenge the content, demonstrate skills, or repeat the course as deemed necessary. The final decision for transfer credit for Dental Hygiene courses is determined by the Dental Hygiene Program Director.

Applicants must submit a letter explaining the circumstances of any previous exit from a Dental Hygiene program. The letter must be sent from the Dental Hygiene Program Director at the former institution. CCCC's Dental Hygiene Program Director and Vice-President of Student Services must approve students who were dismissed, expelled, or suspended for any reason. Students who withhold previous exit information may be dismissed from the program.

### Academic Standards:

Program Specific Academic Standards: See additional Program Specific Standards in the Dental Hygiene Student Guidelines Handbook and specific Dental Hygiene course syllabus.

Dental Hygiene students must maintain an overall and semester GPA 2.0 or better, and must have a grade of "C" or better in all courses required by the Dental Hygiene curriculum. Dental Hygiene and progressive related courses must be taken in succession as they appear in the catalog. Dental Hygiene students must meet the standards related to demonstration of emotional and physical health within the framework of Dental Hygiene practice and must adhere to the other policies set forth in the Dental Hygiene Student Guidelines Handbook. Dental Hygiene students must not be on probation or suspension status.

Program Length: 5 semesters

Career Pathway Options: Associate in Applied Science Degree

Program Site: Central Carolina Dental Center; Sanford, NC-Day

Suggested Course Schedule:	HOURS				Grade	Semester	Notes
	Class	Lab	Clinic	Credit			
<b>1st Semester (Fall)</b>							
BIO 163	Human Anat. & Physiology w/Lab	4	2	0	5		
DEN 110	Orofacial Anatomy	2	2	0	3		
DEN 111	Infection/Hazard Control	2	0	0	2		
DEN 112	Dental Radiology	2	3	0	3		
DEN 120	Dental Hygiene Preclinic Lecture	2	0	0	2		
DEN 121	Dental Hygiene Preclinic Lab	0	6	0	2		
		12	13	0	17		
<b>2nd Semester (Spring)</b>							
CHM 130	General, Organic & Biochem	3	0	0	3		
CHM 130A	General, Organic & Biochem Lab	0	2	0	1		
DEN 123	Nutrition/Dental Health	2	0	0	2		
DEN 124	Periodontology	2	0	0	2		
DEN 130	Dental Hygiene Theory I	2	0	0	2		
DEN 131	Dental Hygiene Clinic I	0	0	9	3		
DEN 223	Dental Pharmacology	2	0	0	2		
DEN 224	Materials & Procedures	1	3	0	2		
		12	5	9	17		
<b>3rd Semester (Summer)</b>							
CIS 111	Basic PC Literacy	1	2	0	2		
DEN 140	Dental Hygiene Theory II	1	0	0	1		
DEN 141	Dental Hygiene Clinic II	0	0	6	2		
ENG 111	Expository Writing	3	0	0	3		
ENG 111A	Expository Writing Lab	0	2	0	1		
PSY 150	General Psychology	3	0	0	3		
		8	4	6	12		

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### 4th Semester (Fall)

BIO 175	General Microbiology	2	2	0	3			
DEN 220	Dental Hygiene Theory III	2	0	0	2			
DEN 221	Dental Hygiene Clinic III	0	0	12	4			
DEN 222	General & Oral Pathology	2	0	0	2			
DEN 232	Community Dental Health	2	0	3	3			
	Humanities/Fine Arts Elective	3	0	0	3			
		11	2	15	17			

### 5th Semester (Spring)

COM 120	Interpersonal Communication	3	0	0	3			
DEN 230	Dental Hygiene Theory IV	1	0	0	1			
DEN 231	Dental Hygiene Clinic IV	0	0	12	4			
DEN 233	Professional Development	2	0	0	2			
SOC 210	Introduction to Sociology	3	0	0	3			
		9	0	12	13			

Total Semester Hours Credit: 76

### Course Descriptions:

#### **BIO 163 Basic Anatomy and Physiology 4-2-5**

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. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

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

*Prerequisite: 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.

#### **CHM 130 General, Organic and Biochemistry 3-0-3**

*Corequisite: CHM 130A*

This course provides a survey of basic facts and principles of general, organic, and biochemistry. Topics include measurement, molecular structure, nuclear chemistry, solutions, acid-base chemistry, gas laws, and the structure, properties, and reactions of major organic and biological groups. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

#### **CHM 130A General, Organic and Biochemistry Lab 0-2-1**

*Corequisite: CHM 130*

This course is a laboratory for CHM 130. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 130. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 130. Also included are EMR, spectrophotometry, extraction, safety, and feed analysis. This course has been approved for transfer under the CAA and ICAA as a premajor and/or elective course requirement.

#### **CIS 111 Basic PC Literacy 1-2-2**

This course provides an overview of computer concepts. Emphasis is placed on the use of personal computers and software applications for personal and fundamental workplace use. Upon completion, students should be able to demonstrate basic personal computer skills.

#### **COM 120 Introduction to Interpersonal Communication 3-0-3**

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 Humanities/Fine Arts.

#### **DEN 110 Orofacial Anatomy 2-2-0-3**

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.

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**DEN 111 Infection/Hazard Control 2-0-0-2**

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.

**DEN 112 Dental Radiography 2-3-0-3**

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.

**DEN 120 Dental Hygiene Preclinic Lecture 2-0-0-2**

*Corequisite: DEN 121*

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.

**DEN 121 Dental Hygiene Preclinic Laboratory 0-6-0-2**

*Corequisite: DEN 120*

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.

**DEN 123 Nutrition/Dental Health 2-0-0-2**

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.

**DEN 124 Periodontology 2-0-0-2**

*Prerequisites: DEN 110*

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 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.

**DEN 130 Dental Hygiene Theory I 2-0-0-2**

*Prerequisite: DEN 120*

*Corequisite: DEN 131*

This course is a continuation of the didactic dental hygiene concepts necessary for providing an oral prophylaxis. Topics include deposits/removal, instrument sharpening, patient education, fluorides, planning for dental hygiene treatment, charting, and clinical records and procedures. Upon completion, students should be able to demonstrate knowledge needed to complete a thorough oral prophylaxis.

**DEN 131 Dental Hygiene Clinic I 0-0-9-3**

*Prerequisite: DEN 121*

*Corequisites: DEN 130*

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.

**DEN 140 Dental Hygiene Theory II 1-0-0-1**

*Prerequisites: DEN 130*

*Corequisite: DEN 141*

This course provides a continuation of the development, theory, and practice of patient care. Topics include modification of treatment for special needs patients, advanced radiographic interpretation, and ergonomics. Upon completion, students should be able to differentiate necessary treatment modifications, effective ergonomic principles, and radiographic abnormalities.

**DEN 141 Dental Hygiene Clinic II 0-0-6-2**

*Prerequisite: DEN 131*

*Corequisite: DEN 140*

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.

**DEN 220 Dental Hygiene Theory III 2-0-0-2**

*Prerequisite: DEN 140*

*Corequisite: DEN 221*

This course provides a continuation in developing the theories and practices of patient care. Topics include periodontal debridement, pain control, subgingival irrigation, air polishing, and case presentations. Upon completion, students should be able to demonstrate knowledge of methods of treatment and management of periodontally compromised patients.

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

*Prerequisite: DEN 141*

*Corequisite: 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.

