



Course Number and Title: DHY 151 Periodontology/Cariology

Campus Location:

Dover, Wilmington

Effective Date:

2021-51

Prerequisite:

DHY 121, SSC 100 or concurrent

Co-Requisites:

none

Course Credits and Hours:

3.00 credits

3.00 lecture hours/week

0.00 lab hours/week

Course Description:

This course focuses on the etiology and clinical manifestations of periodontal diseases and dental caries as well as their impact on systemic health. The role of the dental hygienist in the assessment, prevention and treatment of these diseases is emphasized.

Required Text(s):

Obtain current textbook information by viewing the [campus bookstore - https://www.dtcc.edu/bookstores](https://www.dtcc.edu/bookstores) online or visit a campus bookstore. Check your course schedule for the course number and section.

Additional Materials:

Dental Hygiene Program Policy and Procedures Manual

Allied Health/Science Department Program Student Policy Manual

Schedule Type:

Classroom Course

Video Conferencing

Disclaimer:

None

Core Course Performance Objectives (CCPOs):

1. Differentiate between healthy and diseased dental tissues and periodontium. (CCC 1, 2, 4, 5, 6; PGC 1, 5)
2. Identify the etiological factors in the development and classification of dental caries and periodontal diseases. (CCC 1, 2, 4, 5, 6; PGC 1, 5)
3. Describe therapeutic and prevention strategies in the management of periodontal diseases and dental caries. (CCC 1, 2, 4, 5, 6; PGC 1, 2)
4. Explain the role of the dental hygienist in the assessment, treatment, and re-evaluation of the patient with periodontal disease and/or dental caries. (CCC 1, 2, 3, 4, 5, 6; PGC 1, 2, 5, 6)

See Core Curriculum Competencies and Program Graduate Competencies at the end of the syllabus. CCPOs are linked to every competency they develop.

Measurable Performance Objectives (MPOs):

Upon completion of this course, the student will:

1. Differentiate between healthy and diseased dental tissues and periodontium.
 1. Review the clinical features and microscopic anatomy of healthy dental and periodontal tissues.
 2. Analyze the microscopic changes associated with dental caries and periodontal diseases to their clinical and radiographic features.
2. Identify the etiological factors in the development and classification of dental caries and periodontal diseases.
 1. Apply the American Academy of Periodontology (AAP) system to the classification of periodontal diseases.
 2. Describe the complex structure of dental plaque biofilm and its impact on the development of disease and treatment strategies.
 3. Differentiate between local contributing factors and systemic factors in dental and periodontal diseases.
 4. Relate the underlying host/tissue responses involved in disease to their clinical manifestations.
 5. Discuss the relationship between periodontal and systemic disease.
3. Describe therapeutic and prevention strategies in the management of periodontal diseases and dental caries.
 1. Discuss the role of diet, fluorides, remineralizing agents, sealants, and chemotherapeutic agents in the prevention of dental caries.
 2. Discuss the role of chemical agents, host modulation, and non-surgical therapies in the management of periodontal diseases.
 3. Discuss the rationale for alternative oral physiotherapy aids for periodontally involved patients.
4. Explain the role of the dental hygienist in the assessment, treatment, and re-evaluation of the patient with periodontal disease and/or dental caries.
 1. Interpret dental radiograph series for the signs of periodontal disease and dental caries.
 2. Prepare a risk assessment for periodontal disease and dental caries for a clinical patient.
 3. Formulate a dental hygiene treatment plan for patients who exhibit periodontal disease and/or dental caries.
 4. Describe follow-up care and referral of patients with periodontal disease and/or dental caries.
 5. Prepare a written summary of an observation of periodontal debridement procedures completed by a dental hygiene student or dental hygienist.

Evaluation Criteria/Policies:

The grade will be determined using the Delaware Tech grading system:

90	-	100	=	A
80	-	89	=	B
70	-	79	=	C
0	-	69	=	F

Students should refer to the [Student Handbook - https://www.dtcc.edu/handbook](https://www.dtcc.edu/handbook) for information on the Academic Standing Policy, the Academic Integrity Policy, Student Rights and Responsibilities, and other policies relevant to their academic progress.

Core Curriculum Competencies (CCCs are the competencies every graduate will develop):

1. Apply clear and effective communication skills.
2. Use critical thinking to solve problems.
3. Collaborate to achieve a common goal.
4. Demonstrate professional and ethical conduct.
5. Use information literacy for effective vocational and/or academic research.
6. Apply quantitative reasoning and/or scientific inquiry to solve practical problems.

Program Graduate Competencies (PGCs are the competencies every graduate will develop specific to his or her major):

1. Collect and analyze baseline data in a critical and scientific manner regarding the patient's health status to determine dental hygiene treatment needs.
2. Utilizing professional communication skills and behaviors, initiate and responsibly advocate health care promotion and disease prevention for diverse populations.
3. Provide dental hygiene care in a safe manner.
4. Utilizing self-assessment skills, evaluate clinical performance and the effectiveness of dental hygiene treatment.
5. Accurately document information related to dental hygiene care through proper record keeping.
6. Recognize and manage the professional and ethical issues of dental hygiene practice in a dynamic environment.

Disabilities Support Statement:

The College is committed to providing reasonable accommodations for students with disabilities. Students are encouraged to schedule an appointment with the campus Disabilities Support Counselor to request an accommodation needed due to a disability. A listing of campus Disabilities Support Counselors and contact information can be found at the [disabilities services - https://www.dtcc.edu/disabilitysupport](https://www.dtcc.edu/disabilitysupport) web page or visit the campus Advising Center.