

**DH 79 Course Outline as of Fall 2019****CATALOG INFORMATION**

Dept and Nbr: DH 79

Title: PERIODONTICS FOR DH

Full Title: Periodontics for the Dental Hygienist

Last Reviewed: 2/11/2019

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	2.00	Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	2.00	Lab Scheduled	0	17.5	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	2.00		Contact Total	35.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00

Total Student Learning Hours: 105.00

Title 5 Category: AA Degree Applicable

Grading: Grade Only

Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP

Also Listed As:

Formerly:

**Catalog Description:**

The study of the structural, functional, and environmental factors associated with the normal and diseased periodontium. An emphasis will be placed on the etiology, pathology, and therapeutic and preventive treatment modalities of periodontal disease.

**Prerequisites/Corequisites:**

Course Completion of DH 74 and Concurrent Enrollment in DH 80 and DH 71D

**Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: The study of the structural, functional, and environmental factors associated with the normal and diseased periodontium. An emphasis will be placed on the etiology, pathology, and therapeutic and preventive treatment modalities of periodontal disease. (Grade Only)

Prerequisites/Corequisites: Course Completion of DH 74 and Concurrent Enrollment in DH 80 and DH 71D

Recommended:

Limits on Enrollment:

Transfer Credit: CSU;

Repeatability: Two Repeats if Grade was D, F, NC, or NP

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>	Transferable	Effective: Fall 1999	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Major Applicable Course

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Evaluate each component of a comprehensive periodontal assessment and apply this knowledge to patient care planning.
2. Describe healthy and diseased periodontium and the factors that influence the progression of periodontal disease.

### **Objectives:**

At the conclusion of this course, the student should be able to:

1. Describe the tissues of the periodontium and their functions.
2. Describe the major components that make up the microscopic anatomy of the periodontium.
3. List and define the various stages of periodontal disease.
4. Describe various classifications of periodontal disease.
5. Describe how the numbers of bacteria vary from health to disease in the periodontium.
6. Identify and address the importance of local contributing factors in maintaining long-term periodontal health.
7. Describe the basic concepts of immunity and inflammation.
8. Describe the role of the host response in the severity and tissue destruction seen in periodontitis.
9. Describe how to evaluate each component of a comprehensive periodontal assessment and apply this knowledge to patient care planning.
10. Describe early radiographic evidence of periodontal disease.
11. Explain the difference between signs of a disease and symptoms of a disease.
12. Discuss the concept of self-care and the roles of the patient provider.
13. Discuss the indications and procedures for nonsurgical periodontal therapy.
14. Define and discuss the oral benefits from supragingival and subgingival irrigation.
15. Describe the difference between systemic delivery and topical delivery of chemical agents.

**Topics and Scope:**

- I. The Periodontium in Health
  - A. Tissues of the periodontium
  - B. Nerve supply, blood supply, and lymphatic system
  - C. Histology of the body tissues
  - D. Histology of the gingiva
  - E. Histology of root cementum and alveolar bone
- II. The Progression of Periodontal Disease
  - A. The periodontium in health and disease
  - B. Pathogenesis of bone destruction
  - C. Periodontal pockets
- III. Classification of Periodontal Diseases and Conditions
  - A. Introduction to disease classification
  - B. Classification systems
  - C. American Academy of Periodontology (AAP) classification system for periodontal diseases
  - D. Overview of periodontal diseases
- IV. Oral Biofilms and Periodontal Infections
  - A. Bacteria in the oral environment
  - B. Bacteria associated with periodontal health and disease
  - C. The structure and colonization of plaque biofilms
  - D. Mechanisms of periodontal destruction
  - E. Control of plaque biofilms
- V. Local Contributing Factors
  - A. Mechanisms for increased disease risk
  - B. Local factors that increase plaque biofilm retention
  - C. Local factors that increase plaque biofilm pathogenicity
  - D. Local factors that cause direct damage
- VI. Immunity, Inflammation and the Host Response to Periodontal Pathogens
  - A. The body's defense system
  - B. Components of the immune system
  - C. Leukocyte migration, chemotaxis, and phagocytosis
  - D. The inflammatory process
  - E. The role of host response in periodontal disease
  - F. Pathogenesis of inflammatory periodontal disease
- VII. Clinical Periodontal Assessment and Radiographic Paralysis of the Periodontium
  - A. The assessment process - responsibilities, legal considerations and documentation
  - B. The Periodontal Screening Examination
  - C. The comprehensive periodontal assessment
  - D. Clinical features that require calculations
  - E. Radiographic appearance of the periodontium
  - F. Use of radiographs for periodontal evaluation
- VIII. Best Practices for Periodontal Care and Decision-Making
  - A. During treatment planning for patients with periodontal disease
  - B. What is best practice?
  - C. The role of evidence-based care in best practice
  - D. Decisions related to assigning a periodontal diagnosis
  - E. Decisions related to treatment sequencing
  - F. Informed consent for periodontal treatment
- IX. Patient's Role in Nonsurgical Therapy and Host Modulation
  - A. Patient's self-care
  - B. Patient-performed interdental care
  - C. Anatomical challenges for the patient with periodontal disease

- D. Introduction to the concept of host modulation
- E. Host modulation as part of comprehensive periodontal management
- X. Nonsurgical Therapy Treatment
  - A. Overview of therapeutic modalities
  - B. Initial nonsurgical therapy
  - C. Adjunct therapy
  - D. Follow-up reevaluation

### Assignment:

1. Reading assignments (20-30 pages/week)
2. Semester-long case study:
  - a. Initial clinical charting and medical history
  - b. Production and interpretation of full mouth radiographs
  - c. Intra-oral photographs of clinical patient
  - d. Written identification of patient's risk factors and prognosis for successful resolution of disease through clinical therapy
  - e. Presentation
3. Quizzes (4-8), midterm and final examination

### Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written case study	Writing 20 - 30%
--------------------	---------------------

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Preparation and presentation of case study	Problem solving 10 - 20%
--	-----------------------------

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None	Skill Demonstrations 0 - 0%
------	--------------------------------

**Exams:** All forms of formal testing, other than skill performance exams.

Quizzes, midterm and final exam	Exams 50 - 60%
---------------------------------	-------------------

**Other:** Includes any assessment tools that do not logically fit into the above categories.

None	Other Category 0 - 0%
------	--------------------------

### Representative Textbooks and Materials:

Foundations of Periodontics for the Dental Hygienist. 6th ed. Nield-Gehrig, J. S., and Willmann, D.E. Lippincott, Williams & Wilkins. 2018  
Instructor prepared materials