

**DH 79 Course Outline as of Fall 1999****CATALOG INFORMATION**

Dept and Nbr: DH 79

Title: PERIO. FOR DENT. HYG.

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 discipline of periodontics. This course includes related biological, clinical and behavioral aspects of the discipline, including the etiology, histopathology, epidemiology of the periodontal diseases. Traditional and modern diagnostics; and the classification of the periodontal diseases. The principles of periodontal therapy will be discussed including preventive (oral hygiene) for the periodontally involved patient; initial periodontal therapy (biologic basis and rationale); adjunctive therapy such as chemical therapeutics and pharmacotherapeutics. Principles of respective and regenerative surgery will be presented.

**Prerequisites/Corequisites:**

Course Completion of DH 74 and Concurrent Enrollment in DH 80

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

Description: The etiology, histopathology, epidemiology of the periodontal diseases; the anatomical features of the healthy periodontium, the classification of the periodontal diseases.

Adjuvant therapy such as chemical therapeutics and pharmacotherapeutics. Principles of respective and regenerative surgery . (Grade Only)

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

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:**

Certificate Applicable Course

## **COURSE CONTENT**

### **Outcomes and Objectives:**

#### **A. Periodontal health**

1. Describe the healthy periodontium with regard to its anatomy and histology.
2. Describe the clinical, histologic, and radiographic features of the healthy periodontium.
3. Describe the function of the healthy periodontium.

#### **B. Classification of the periodontal diseases**

1. Describe and differentiate the clinical, radiographic, and histologic features of the periodontal diseases and outline an acceptable system for their classification.
2. Apply clinical assessment tools to evaluate, diagnose, and classify the periodontal diseases: gingivitis and adult onset periodontitis.

#### **C. Epidemiology**

1. Describe the epidemiology of the periodontal diseases.
2. Describe several principal epidemiological indices used to measure the prevalence and severity of the periodontal diseases.

#### **D. Etiology**

1. Describe the etiology of the periodontal diseases.
2. Discuss the prevailing theories about the etiology of the periodontal diseases. Be able to compare and contrast conflicting theories. Analyze "specificity theory" and discuss how this theory affects periodontal diagnosis and

therapy.

3. Describe the stages of development and composition of human microbial plaque.
  4. Describe the role of microbial plaque in periodontal disease initiation and progression.
  5. Classify specific microorganisms associated with the periodontal diseases.
  6. Describe the role of diet in the formation of microbial plaque.
  7. Describe the formation, composition and modes of attachment of calculus.
  8. Identify the other factors such as overhanging restorations and predisposing factors which may contribute to periodontal etiology.
  9. Explain the role of occlusal trauma as an etiologic factor.
- E. Pathogenesis and disease progression
1. Describe and apply the concepts of disease progression of the periodontal diseases.
  2. Discuss prevailing theories about periodontal disease progression in each of the known periodontal diseases.
  3. Describe how the prevailing theories are used in the application of periodontal assessments and therapy.
  4. Describe and differentiate factors that may modify the host's response to periodontal disease.
  5. Explain the immunopathology of the periodontal diseases.
- F. Dental Hygiene Assessment and Diagnosis.
1. Develop expertise with current clinical and medical diagnostics used to identify the periodontal diseases.
  2. Interpret the clinical and radiographic features associated with the periodontal diseases to establish a periodontal diagnosis for chronic gingivitis and adult onset periodontitis.
  3. Diagnose/interpret the severity of adult onset periodontitis as presented by American Academy of Periodontology (AAP).
  4. Discuss both local and systemic modifying factors of the periodontal diseases.
- G. The aim of periodontal therapy.
1. Explain the aim of periodontal therapy.
  2. Describe the refocus of periodontal therapy from resective to regenerative.
  3. Discuss the renewed emphasis on preventive and maintenance phases of therapy.
- H. Therapy
1. Discuss common treatment modalities of the periodontal diseases.
  2. Describe and discuss the essential of plaque control including methods, materials, rationale, and techniques for the periodontally involved patient.
  3. Initiate a program of preventive dental care for a periodontally involved patient.
  4. Describe the biologic basis for scaling and for root planing.
  5. Describe and discuss the rationale for the initial phases of therapy and explain the procedures inherent in such therapy.
  6. Formulate a sequence of therapeutic measures to arrest a patient's periodontal disease (gingivitis/adult onset

- periodontitis).
- 7. Discuss probable prognoses of the periodontal diseases gingivitis and adult onset periodontitis.
- 8. Explain and discuss pharmacological and adjunctive aspects of periodontal therapy.
- 9. Discuss the surgical and other therapeutic measures used to treat the periodontal diseases by the periodontist.

## **Topics and Scope:**

- A. The Ideal Periodontium
- B. Epidemiology
- C. Etiology of the Periodontal diseases
  - 1. Plaque colonization and maturation
  - 2. The microbiology of the periodontal diseases
  - 3. Supporting Theories - Koch's postulates, Specificity theory, Mixed bacterial infection theory.
  - 4. Contributing factors
    - (a) The formation, composition and modes of attachment of supra and subgingival calculus; conditions such as carious lesions, overhanging restorations and their role in etiologic development of the periodontal diseases.
    - (b) Occlusion.
  - 5. Predisposing factors - tobacco, age, diet, oral hygiene.
- D. Host response/ the inflammatory response
  - 1. Histological response
  - 2. Vascular and cellular responses
  - 3. Immunology response
- E. Pathogenesis/Disease activity
- F. Traditional Diagnostic tools
- G. Biologic width.
- H. Classification of the periodontal diseases
- I. Dental Hygiene Diagnosis
- J. Treatment
  - 1. Aims/biologic rationale/overview of therapeutic modalities/sequencing
  - 2. Prevention
  - 3. Initial therapy/periodontal maintenance/oral prophylaxis
  - 4. Efficacy of initial therapy
  - 5. Decision making
  - 6. Polishing (selective/therapeutic)
  - 7. Adjunct therapy
- K. Documentation
- L. Postoperative instructions
- M. Follow-up care/referral
- N. Prognosis
- O. Periodontic/prosthodontic considerations
- P. Resective procedures
- Q. Regenerative procedures

## **Assignment:**

Reading  
Homework  
Reading  
Case Studies  
Slide Identification

### 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 homework, Reading reports, Case Studies

Writing  
5 - 40%

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

Homework problems, Quizzes, Exams, SKILLS

Problem solving  
10 - 80%

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

Class performances, Field work, Performance exams

Skill Demonstrations  
5 - 35%

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

Multiple choice, True/false, Matching items, Completion, FILL IN

Exams  
5 - 40%

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

Professionalism. Criteria used to evaluate on file.

Other Category  
15 - 45%

### Representative Textbooks and Materials:

Dental Hygiene Theory & Practice. Darby, M, and Walsh, M., WB Saunders, Philadelphia, 1996

Periodontal Instrumentation, Pattison, A. and Pattison, G., Norwalk: Appleton and Lange, 1992

Clinical Practice of the Dental Hygienist 7th Ed. Wilkins, E.M., Malvern: Williams & Wilkins, 1990

SUPPLEMENTARY TEXTS: Medical Emergencies in the Dental Office, 4th Ed., St. Louis, CV Mosby, 1993