

# D H 316A: PERIODONTICS I

## Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2021
Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 57A.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

## Student Learning Outcomes

- Students will be able to identify the enamel, gingival connective tissue, junctional epithelium, internal basal lamina, external basal lamina, epithelial cells, desmosomes, and hemidesmosomes on an unlabeled drawing depicting the microscopic anatomy of the junctional epithelium and surrounding tissues.
- Students will be able to list, describe and differentiate the various periodontal diseases according to the current classification system established by the American Academy of Periodontics

## Description

The first in a series of two courses in periodontics for the dental hygiene student. Examination of anatomy and physiology of periodontium, correlating of basic sciences with the clinical aspects of periodontal diseases. American Academy of Periodontics classification system, etiology and pathogenesis of periodontal diseases. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

## Course Objectives

The student will be able to:

- List, recognize and describe the functions of the four tissues that make up the periodontium.
- Compare and contrast the clinical and histological characteristics of the periodontium in health and disease.
- Discuss the classification and progression of periodontal diseases.
- Analyze the etiology of periodontal diseases, including: oral biofilms, local contributing factors, immunity, inflammation, host response to periodontal pathogens, systemic factors, smoking, and host risk factors.
- Categorize and contrast the various types/classifications of gingival diseases and periodontal diseases using the AAP classification of periodontal disease system.
- Explain the procedures for a comprehensive periodontal examination.

## Course Content

- The periodontium in health
  - Clinical and histologic characteristics of the periodontium
  - Nerve supply, blood supply, and lymphatic system
- Classification of periodontal diseases
  - Pathogenesis of bone destruction and periodontal pockets

- Classification systems
- Etiology of periodontal diseases
  - Oral biofilms and periodontal infections
  - Local contributing factors
  - Basic concepts of immunity and inflammation
  - Host immune response to periodontal pathogens
  - Systemic factors associated with periodontal diseases
  - Smoking and periodontal disease
  - Risk factors of periodontitis
- Gingival diseases
  - Clinical features of the gingiva
  - Diseases of the gingiva
- Periodontitis
  - Chronic periodontitis
  - Aggressive periodontitis
  - Other periodontal conditions
  - Periodontitis as a risk factor for systemic disease
- Assessment for clinical decision making
  - Clinical periodontal assessments
  - Clinical features that require calculations
  - Radiographic analysis of the periodontium

## Lab Content

Not applicable.

## Special Facilities and/or Equipment

- Classroom with multimedia equipment.
- When taught via Foothill Global Access, on-going access to computer with email software and hardware; email address.

## Method(s) of Evaluation

Written quizzes  
Midterm and final examination including objective, case study and essay questions

## Method(s) of Instruction

Lecture  
Discussion  
Oral presentations  
Patient case studies

## Representative Text(s) and Other Materials

Nield-Gehrig, J., et al.. Foundations of Periodontics for the Dental Hygienist, 5th ed.. 2019.

## Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

A. Weekly reading assignments from the textbook, one to three chapters 25-75 pages and current evidence based journal articles on periodontal disease.

## Discipline(s)

Dental Technology