

UNIVERSITY OF DETROIT MERCY SCHOOL OF DENTISTRY

Department of Periodontology and Dental Hygiene

Course Syllabus

Course Title: Biologic Basis to Soft Tissue Disease - Fall 2007

Course Numbers: DPE 820 and DH 809

Course Director: Anthony L. Neely, D.D.S., M.Dent.Sc., Ph.D.

Office: 337 Manning Hall

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Office Hours: By appointment

Term I (Fall), 2007 Thursday
8:00 - 9:30 AM

Location: Ward – St. Clair

Credit Hours: 2

Academic Policies:

Please refer to the School of Dentistry Academic Policies Handbook for guidelines related to academic integrity, mandatory attendance, professional decorum & dress code, preclinical and classroom decorum, examination policies and exam/quiz absences, and course waiver policy.

Attendance at all class sessions is MANDATORY for all students. Any student who does not take the examinations when scheduled **must** obtain written approval to make-up the exams from the Associate Dean of Academic Planning and Development. A grade of zero will be entered if approval to take the quiz is not granted. Refer to the Handbook on Academic Policies for further details. See information on quizzes below.

Accommodations:

If you would like to request a classroom, testing, preclinical, clinical, or other accommodation because of a legally protected disability, or if you might require any special assistance in the event of an emergency or evacuation, please contact the University of Detroit Mercy's Office of University Academic Services (UAC) at 313-578-0310 or email a request for information to or email your request for information to gallegem@udmercy.edu.

Lecturers/Support Faculty

Ashok Balasundaram, BDS, MDS, MS, FDSRCS

Diagnostic Sciences

Luis Litonjua, DMD, MS

Periodontology and Dental Hygiene

Anthony Neely, DDS, MDentSc, PhD

Periodontology and Dental Hygiene,
Course Director

James Winkler, DDS, PhD

Periodontology and Dental Hygiene,
Chair

Course Description:

The purpose of this course is to provide the student with an overview of the factors associated with health and disease of the periodontium. The normal and abnormal periodontium will be described at the macroscopic, microscopic and radiographic levels. The classification system currently used for diagnosing periodontal diseases will be described. Basic microbiology, including the normal and pathogenic flora, basic immunology and host-parasite interactions will be presented to provide a framework for understanding the biologic basis of periodontal disease. The relationship between periodontal disease and systemic disease will also be emphasized.

Instructional Methods:

Instructional methods utilized in this course include lectures and reading assignments

School of Dentistry Competencies:

This course will contribute to the development of the following School of Dentistry competencies:

1, 2a-d, 3a-e, 5a-c, 4b-d, 7a-c

Dental Hygiene Competencies:

1, 2a-d, 3, 5a-c, 7a-c, 12, 14

Course Goals and General Objectives:

At the end of this course the student should be able to:

1. Describe the histology of the normal and diseased periodontium
2. List the indications for radiography of oral tissues
3. Describe the basic radiographic views of periodontal structures in health and disease
4. Describe the classification system currently used by the American Academy of Periodontology (AAP) to categorize the various forms of periodontal disease
5. Describe the etiology of periodontal disease
6. Describe the general and specific microbiota associated with periodontal health and disease
7. Understand the relationship between risk factors and periodontal disease
8. Understand the pathogenesis of periodontal disease at the immune cell level
9. Correlate the clinical signs of periodontal disease with the underlying pathogenesis
10. Describe the host-parasite interactions involved in periodontal disease.
11. Understand the biologic relationship between periodontal disease and systemic conditions

Grading:

The uniform School of Dentistry grading scale as described in the 2005-2006 Academic Policies Handbook will be used for DH students. Note that DDS students must score a C- or better grade to successfully pass this course. Per Department of Periodontology and Dental Hygiene policy, grades below C- for DDS students will be recorded as failures (F) and **must** be remediated (see Important Note for Dental Students below).

Important Note for Dental Students:

A final course grade of C- or better is required on didactic courses (DPE 820, DPE 821, DPE 824) for advancement into the clinical phase of courses given by the Department of Periodontology and Dental Hygiene (DPE 831 and DPE 841). If you achieve a grade less than C- in any of these courses you will be required to remediate the course material in a manner selected by the director of each course (see Remediation section below).

Criteria for calculating the final grade will be:

1. Periodic short quizzes
2. Scheduled major examinations

The value for quizzes and examinations is as follows:

Quizzes	20%	(Unannounced quizzes)
Midterm Examination	40%	
<u>Comprehensive Final Examination</u>	40%	
Total	100%	

Policy on Quizzes/Examinations

All quizzes will be unannounced. There are **no make-ups** for missed quizzes. A **zero (0)** grade will be recorded for a missed quiz. While quizzes are typically given at the beginning of the class period, they could be given at anytime during the session. Hence, it is important to arrive on time and remain for the entire session. Arriving after quizzes have been collected or leaving prior to taking a quiz will result in a zero (0) for that quiz. Leaving class after a quiz and prior to class dismissal will result in a zero (0) for that quiz. The lowest quiz score will be dropped. There will be two (2) formal examinations. The midterm will test material up to the last lecture prior to the examination and the final examination will be comprehensive with an emphasis on material presented after the midterm.

Remediation:

The method of course remediation involves taking a written examination over similar material presented in the entire course. The remedial examination may be similar to the final examination or consist of short answer, essay or a combination of each. The type of examination will be at the discretion of the course director. The remedial examination must be completed by the end of January 2008 or an F (failing) course grade will be recorded. Successful completion of the remediation will result in a maximum grade of C-. Students who fail the remedial exercise will be required to retake the entire course the next time it is offered.

Textbook/References/Handouts/Reading Assignments:

- Textbook (DS and DH) Rose LF, Mealey BL, Genco RJ and Cohen DW: Periodontics: Medicine, Surgery and Implants. St. Louis: Elsevier Mosby, 2004
- Textbook (DH) Nield-Gehrig JS and Willmann DE: Foundations of Periodontics for the Dental Hygienist. Philadelphia: Lippincott Williams and Wilkins, 2003
- Handouts Each lecturer will provide lecture outlines or reprints of journal assignments and other specific readings as deemed appropriate. These may include, but not be limited to handouts, book chapters, journal references and/or links to other websites. Lecture material will be posted on the Knowledge website for access at any time. Specific learning objectives will be listed for each lecture.
- Reading assignments Required reading will be assigned during or prior to specific lectures. All students should complete assigned reading(s) before the next class. The questions on daily quizzes and examinations will be based on reading assignments and lecture notes. Often times some important points on a topic cannot be adequately explored during a lecture. Hence, it is incumbent upon you to read the assigned material. Other helpful readings include other textbooks, journal articles or internet sites that may explain or organize the subject in a different manner. Please feel free to ask the instructor(s) for alternative or supplemental material if you feel that this would be of benefit to you.

Course Schedule – DPE 820 and DH 809 (See Schedules Below)

	Date	Time	Lecturer	Topic
1	8/16/07	8:00 – 9:30	Neely	Course Introduction
2	8/23/07	8:00 – 9:30	Winkler	The Normal Periodontium
3	8/30/07	8:00 – 9:30	Neely	The Diseased Periodontium
4	9/6/07	8:00 – 9:30	Balasundaram	Radiographic Interpretation in Periodontics
5	9/13/07	8:00 – 9:30	Litonjua	Classification of Periodontal Disease
6	9/20/07	8:00 – 9:30	Litonjua	Periodontal Microbiology I
7	9/27/07	8:00 – 9:30	Litonjua	Periodontal Microbiology II
8	10/4/07	8:00 – 9:30	Neely	Midterm Examination
9	10/11/07	8:00 – 9:30	Winkler	Pathogenesis of Periodontal Disease I
10	10/18/07	8:00 – 9:30	Winkler	Pathogenesis of Periodontal Disease II
11	10/25/07	8:00 – 9:30	Winkler	Pathogenesis of Periodontal Disease III
12	11/1/07	8:00 – 9:30	Winkler	Periodontal-Systemic Disease Connection I
13	11/8/07	8:00 – 9:30	Neely	Periodontal-Systemic Disease Connection II
14	11/15/07	8:00 – 9:30	Neely	Periodontal-Systemic Disease Connection III