

**University of Detroit Mercy School of Dentistry**  
Department of Periodontology and Dental Hygiene  
Course Syllabus

**Periodontal Therapy II**  
**(Joint) DPE824/DH830**

**Course Information**

Web Address: <http://knowledge.udmercy.edu>

**Course Directors:**

|  |   |
|--|---|
| Leyvee Cabanilla, DDS, MSD<br>Office: DC 367<br>Office Hours Tuesdays 8-10 am or by<br>appointment<br>Phone: 313-494-6662<br>Email: <a href="mailto:cabanill@udmercy.edu">cabanill@udmercy.edu</a> | Linda Dobis, DDS,<br>Office Hours by appointment or contact<br>Deverly Elly, Administrative Assistant<br>Phone: 313-494-6660<br>Email: <a href="mailto:dobisll@udmercy.edu">dobisll@udmercy.edu</a> |
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**Summer Term, 2007**

DS3 Students (Class of 20010)

DH2 Students (Class of 2009)

Room 1460 Monday mornings, 8:00 – 9:20

**Credit Hours:** Dental 1.0  
Dental Hygiene 1.0

**Prerequisites:** None

## **Lecturers/Support Faculty**

### **Lecturers:**

L. Cabanilla, DDS, MSD

L. Dobis, DDS

S. Kolhatkar, DDS, MDS

### **Academic Policies:**

All policies in the School of Dentistry Academic Policies Handbook including but not limited to academic integrity, mandatory attendance, professional decorum & dress code, identification (ID) badges, preclinical and classroom decorum, use of cell phone and electronic devices, examination policies and exam/quiz absences apply.

### **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 your request for information to [gallegem@udmercy.edu](mailto:gallegem@udmercy.edu)

### **Student Evaluation of Instruction**

Student feedback is valued by the faculty and the administration. All students are required to complete the School of Dentistry's on-line course evaluation by a specified date. Failure to comply by posted deadline dates will result in the receipt of an F (Failing) grade of record for the Evaluation Responsibility Course. Only constructive, professional recommendations will be reported and considered.

## **Course Description**

### **Purpose of the course:**

This course is designed to provide the learner with information regarding the surgical aspects of the treatment of periodontal disease, as well as the consideration of pertinent systemic conditions, which may affect periodontal surgery. It builds on the foundation knowledge presented in DPE 820/DH and DPE 820/DH 811. Topics covered in this course will include the rationale, indications and contraindications for various periodontal surgical procedures, treatment modalities including mucogingival surgery, treatment of bony defects, osseous grafting and periodontal tissue regeneration. The mechanisms and timing of healing of surgical sites, as well as post-surgical treatment will be presented. Current trends in periodontics will be emphasized, and the student will be helped to understand the relationships between the dental hygienist, general practitioner and the periodontal specialist. The student will understand the role of all health care providers in the management of periodontal disease.

### **Course Goals:**

- To provide the student with information that may aid in the management of periodontal disease
- To enable the student to discuss the rationale, objectives and sequence of periodontal surgical therapy
- To enable the student to recognize pertinent medical problems as they relate to surgical management of periodontal disease
- To provide the student with information regarding the various types of surgical treatment for periodontal disease
- To afford the student the ability to recognize which treatment applies to a specific patient and disease status
- To provide the student the ability to recognize the normal events in healing
- To provide the student with the ability to recognize and treat events in the healing phase of surgical care which are not usual and/or routine
- To enable the student to recognize when and how to collaborate with the Periodontist (when to refer a patient for advanced care/treatment)

**Course Objectives:**

At the conclusion of the course, the dental student will be able to:

- Identify pertinent clinical findings that would indicate the need for periodontal surgical procedures.
- Discuss different surgical treatment options available to patients after non surgical periodontal therapy.
- Identify indications and contraindications of different types of periodontal surgical procedures

\* In addition, specific instructional objectives are listed for a number of lectures in course handouts.

**Dental Hygiene Specific Instructional Objectives:**

At the conclusion of learning unit one, the dental hygiene student will be able to:

- Define the methodology of flap design
- List indications for different flap designs
- List indications for a gingivectomy and gingivoplasty
- Describe and recognize indications for distal wedge procedures.
- Recognize indications and some contraindications of surgical crown lengthening

At the conclusion of learning unit two, the dental hygiene student will be able to:

- Identify instruments necessary in periodontal surgery
- Discuss the objectives of the surgical phase of therapy
- Describe general principles of periodontal surgery

At the conclusion of learning unit three, the dental hygiene student will be able to:

- Describe different treatment modalities available for molars with furcation involvement.

At the conclusion of learning unit four, the dental hygiene student will be able to:

- Describe the different stages in wound healing after periodontal surgery.

At the conclusion of learning unit four, the dental hygiene student will be able to:

- Describe the different stages in wound healing after periodontal surgery.

At the conclusion of learning unit four, the dental hygiene student will be able to:

- Describe clinical findings indicative of the presence of a mucogingival defect.
- List different surgical procedures that can be performed to correct a mucogingival defects.
- Discuss the indications of mucogingival surgeries.

At the conclusion of learning unit five, the dental hygiene student will be able to:

- Discuss the indications and contraindications of implant placement.
- Identify clinical situations that would require ridge augmentation
- List different materials available for ridge augmentation procedures.

At the conclusion of learning unit six, the dental hygiene student will be able to:

- Define the term guided tissue regeneration.
- Discuss the indications and contraindications of guided tissue regeneration.
- List different materials needed in performing guided tissue regeneration.

At the conclusion of learning unit seven, the dental hygiene student will be able to:

- Define the terms ailing and failing implants.
- Identify clinical parameters indicative of an ailing or failing implants
- Describe treatment modalities for ailing and failing implants.

### **Instructional Methods:**

Instructional methods utilized in the course include lectures, handouts, and case discussions.

### **School of Dentistry Competencies**

**Competency-based Education:** Assumes that learning to become an entry-level professional is a progression through stages from novice to competent.

**Stages of Progression to Competence:**

**F or Foundation Knowledge:** Basic knowledge, skills, and attitudes needed to begin the journey to competence.

**N or Novice Level:** Ability to articulate or describe the appropriate skills, knowledge, and professional attitudes. Novices need structure, clarity of goals, single and clearly explained approaches.

**B or Beginner Level:** Combines the appropriate skills, knowledge, and professional attitudes, all of which are performed with guidance and correction.

**C or Competent Level:** Combines the appropriate supporting skills, knowledge, and professional attitudes, all of which are performed reliably without assistance.

|    | <b>Competencies of the Graduating Dental Student</b>  | <b>Addressed</b> | <b>Evaluated</b> | <b>Method</b>                  |
|----|---|------------------|------------------|--------------------------------|
| 1. | The graduating student obtains, records, updates and organizes accurate and completed medical/dental histories including pertinent psychological and socioeconomic information.   | YES              | NO               | NA<br>NA<br>NA                 |
| 2. | The graduating student performs, records and organizes a physical assessment appropriate for dental care.   | YES              | NO               | NA<br>NA<br>NA                 |
| 3. | The graduating student determines differential, provisional or definitive diagnoses by correlating and interpreting examination and assessment findings.  | YES              | B                | Written Evaluation<br>NA<br>NA |
| 4. | The graduating student develops alternative treatment plans which are sequenced to address the chief complaint, eliminate oral disease, restore function, and maintain health, and prevent oral disease consistent with assessment and diagnoses. | YES              | B                | Written Evaluation<br>NA<br>NA |
| 5. | The graduating student establishes with the patient a mutually acceptable treatment plan.   | YES              | B                | Written Evaluation<br>NA       |

|     |   |     |    |                                |
|-----|---|-----|----|--------------------------------|
|     |   |     |    | NA                             |
| 6.  | The graduating student monitors and provides for patient comfort associated with dental care.   | YES | NO | NA<br>NA<br>NA<br>NA           |
| 7.  | The graduating student delivers and/or manages the planned treatment in sequence and in accordance with accepted standards of care.                                       | YES | B  | Written Evaluation<br>NA<br>NA |
| 8.  | The graduating student promotes health maintenance and disease prevention.  | YES | B  | Written Evaluation<br>NA<br>NA |
| 9.  | The graduating student applies the principles of infection control and environmental safety.  | YES | NO | NA<br>NA<br>NA                 |
| 10. | The graduating student makes professional decisions affecting the practice of dentistry based on values that satisfy legal and ethical principles and service to society. | YES | B  | Written Evaluation<br>NA<br>NA |
| 11. | The graduating student performs routine self evaluation.  | NO  | NO | NA<br>NA<br>NA                 |
| 12. | The graduating student applies business and practice management skills.   | NO  | NO | NA<br>NA<br>NA                 |
| 13. | The graduating student demonstrates interpersonal skills to function successfully in a multicultural work environment.  | NO  | NO | NA<br>NA<br>NA                 |
| 14. | The graduate critically evaluates the validity of new information, new products, and/or techniques and their relevance to the practice of dentistry.                      | YES | NO | NA<br>NA<br>NA                 |

|            | <b>Competencies of the Graduating Dental Hygiene Student</b>   | <b>Addressed</b> | <b>Evaluated</b> | <b>Method</b>                  |
|------------|--|------------------|------------------|--------------------------------|
| <b>1.</b>  | The graduate demonstrates interpersonal communication skills to function successfully in a multicultural work environment with diverse populations.                  | NO               | NO               | NA<br>NA<br>NA                 |
| <b>2.</b>  | The graduate makes professional decisions affecting the practice of dental hygiene that satisfy legal, societal and ethical principles.                              | YES              | NO               | NA<br>NA<br>NA                 |
| <b>3.</b>  | The graduate performs routine evaluation of self and staff members and takes corrective action to address perceived deficiencies.                                    | NO               | NO               | NA<br>NA<br>NA                 |
| <b>4.</b>  | The graduate critically evaluates the validity of new information, new products, and/or techniques and their relevance to the practice of dental hygiene.            | YES              | NO               | NA<br>NA<br>NA                 |
| <b>5.</b>  | The graduate applies business and practice management skills.  | NO               | NO               | NA<br>NA<br>NA                 |
| <b>6.</b>  | The graduate promotes health maintenance and disease prevention.   | YES              | B                | Written Evaluation<br>NA<br>NA |
| <b>7.</b>  | The graduate applies the principles of infection control and environmental safety.   | YES              | NO               | NA<br>NA<br>NA                 |
| <b>8.</b>  | The graduate obtains, records, updates and organizes accurate and complete medical/dental histories including pertinent psychological and socioeconomic information. | YES              | B                | Written Evaluation<br>NA<br>NA |
| <b>9.</b>  | The graduate performs, records and organizes a physical assessment appropriate for dental care.  | YES              | NO               | NA<br>NA<br>NA                 |
| <b>10.</b> | The graduate determines differential, provisional or   | YES              | B                | Written Evaluation             |

|            |   |     |    |                                |
|------------|---|-----|----|--------------------------------|
|            | definitive dental hygiene diagnoses related to and congruent with the diagnosis of the dentist and other health professionals.                        |     |    | NA<br>NA                       |
| <b>11.</b> | The graduate develops alternative dental hygiene care plans which are sequenced to address patients' needs, consistent with assessment and diagnoses. | YES | B  | Written Evaluation<br>NA<br>NA |
| <b>12.</b> | The graduate establishes with the patient a mutually acceptable dental hygiene care plan.   | YES | NO | NA<br>NA<br>NA                 |
| <b>13.</b> | The graduate monitors and provides for patient comfort associated with dental hygiene care.   | YES | NO | NA<br>NA<br>NA                 |
| <b>14.</b> | The graduate delivers and/or manages planned dental hygiene treatment and education in sequence and in accordance with accepted standards of care.    | YES | B  | Written Evaluation<br>NA<br>NA |

## **Course Policies**

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 for Academic Administration. A grade of zero will be entered if approval to take the exam is not granted.

### Student Evaluation Procedures:

The grading for this course will be based on your performance in written examinations and quizzes. Details regarding evaluation and grading are described later in this document.

### Failure of Course:

In the event of a final grade of < 60%, a failing grade (F) will be submitted. Failure of the course will require retaking the course the following year.

### Course Evaluation:

All students are required to complete an on-line course evaluation by a specified date. Failure to comply will result in the receipt of an Incomplete "I" grade for the Evaluation Responsibility Course.

## **Textbook and Resource Materials**

### 1. Periodontics Medicine, Surgery and Implants

(Primary Resource)

|                   |                     |
|-------------------|---------------------|
| Resource Type:    | Book                |
| Primary Author:   | Rose LF             |
| Secondary Author: | Mealey BL           |
| Publishing House: | Elsevier Mosby      |
| City, Country:    | St. Louis, Missouri |
| Edition/Version#: | 1st edition         |
| Year Published:   | 2004                |

### 2. Color Atlas of Dental Medicine 1: Periodontology

(Secondary Resource)

|                   |                           |
|-------------------|---------------------------|
| Resource Type:    | Book                      |
| Primary Author:   | Rateitschak               |
| Publishing House: | Theime Medical Publishers |
| City, Country:    | New York, USA             |
| Edition/Version#: | 2nd edition               |
| Year Published:   | 1989                      |

## **Evaluation and Grading**

### **Grading Scale, Dental**

|           |   |
|-----------|---|
| <b>A</b>  | =94-100%                                    |
| <b>A-</b> | =90-93%                                     |
| <b>B+</b> | =87-89%                                     |
| <b>B</b>  | =83-86%                                     |
| <b>B-</b> | =80-82%                                     |
| <b>C+</b> | =77-79%                                     |
| <b>C</b>  | =73-76%                                     |
| <b>C-</b> | =70-72%                                     |
| <b>D</b>  | =60-69%                                     |
| <b>F</b>  | =below 60%                                  |
| <b>W</b>  | Withdraw, no credit                         |
| <b>I</b>  | Incomplete, a temporary grade not of record |

### **Grading Scale, Dental Hygiene**

|           |   |
|-----------|---|
| <b>A</b>  | =94-100%                                    |
| <b>A-</b> | =90-93%                                     |
| <b>B+</b> | =87-89%                                     |
| <b>B</b>  | =83-86%                                     |
| <b>B-</b> | =80-82%                                     |
| <b>C+</b> | =77-79%                                     |
| <b>C</b>  | =73-76%                                     |
| <b>C-</b> | =70-72%                                     |
| <b>D+</b> | =67-69                                      |
| <b>D</b>  | =60-66                                      |
| <b>F</b>  | =below 60%                                  |
| <b>W</b>  | Withdraw, no credit                         |
| <b>I</b>  | Incomplete, a temporary grade not of record |

### **Course Grade Components**

|                   |     |
|-------------------|-----|
| Quizzes           | 50% |
| Final Examination | 50% |

### **Course Evaluation Methods**

#### **Quizzes**

Quizzes will be given with no announcement. Quiz grades will comprise 50% of the final grade. A missed quiz will be valued at zero points. Students arriving after the quiz has been collected will not be allowed to take the quiz.

The lowest quiz grade will be dropped.

**Final Examination**

The final exam is a written examination that will cover the lectures and reading assignments and will comprise 50% of the final grade.

**COURSE SCHEDULE**

| <b>DATE</b>   | <b>TOPICS</b>  | <b>LECTURERS</b> | <b>READINGS/<br/>ASSIGNMENTS</b>                                     |
|---|--|------------------|--|
| <b>Monday, May 19</b><br><b>8:00 – 9:20 AM</b><br><b>Room 1460</b>  | Rationale & Objectives of surgery<br>Surgical armamentarium<br>Hygiene & Dental co-therapy | Dobis            | Rose and Mealey<br>Chapter 20  |
| <b>Monday, May 26</b><br><b>8:00 – 9:20 AM</b>                      | <b>Memorial Day</b><br><b>No Class</b>   |                  |  |
| <b>Monday, June 2</b><br><b>8:00 – 9:20 AM</b><br><b>Room 1460</b>  | Flap Design<br>Gingivectomy & Gingivoplasty<br>Crown Lengthening                           | Dobis            | Rose and Mealey<br>Chapter 20<br>Chapter 23 (p. 503-514,<br>545-549) |
| <b>Monday, June 9</b><br><b>8:00 – 9:20 AM</b><br><b>Room 1460</b>  | Management of furcations<br>Principles of osseous resective surgery                        | Cabanilla        | Rose and Mealey<br>Chapter 24  |
| <b>Monday, June 16</b><br><b>8:00 – 9:20 AM</b><br><b>Room 1460</b> | Guided Tissue Regeneration   | Kolhatkar        | Rose and Mealey<br>Chapter 25  |
| <b>Monday, June 23</b><br><b>8:00 – 9:20 AM</b><br><b>Room 1460</b> | Wound Healing and post-op care   | Cabanilla        | Rose and Mealey<br>Handout   |
| <b>Monday, June 30</b><br><b>8:00 – 9:20 AM</b>                     | <b>Midsummer Break</b>   |                  |  |
| <b>Monday, July 7</b><br><b>8:00 – 9:20 AM</b><br><b>Room 1460</b>  | Principles of Implant Surgery<br>and Ridge Augmentation                                    | Cabanilla        | Rose and Mealey<br>Chapter 26  |
| <b>Monday, July 14</b><br><b>8:00 – 9:20 AM</b><br><b>Room 1460</b> | Mucogingival Surgery   | Dobis            | Rose and Mealey<br>Chapter 21  |
| <b>Monday, July 21</b><br><b>8:00 – 9:20 AM</b><br><b>Room 1460</b> | Ailing and Failing Implants  | Cabanilla        | Handout  |
| <b>Monday, July 28</b><br><b>8:00 – 9:20</b><br><b>Room 1460</b>    | Laser in Periodontics  | Dobis            | Handout  |