

# Proposed: DEN8290: Advanced Periodontal Surgery Techniques

Summer 2021

## Course Description:

This is a rotating topics course. Students must complete 6 credits of elective courses during the 4-year curriculum.

The course provides students an in-depth background in periodontics/implantology surgical techniques beyond the disease control stage of treatment. Participation in this course will assist students in their future career goals as a general dentist or pursue post-doctoral studies.

## I. General Information

### Course Director:

Course Director: Tsuyoshi Tanaka

Office: D10-6J

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Phone: 352-294-5109

Course Credits: 1 *TBD*

Semester: Summer annually

### Contributing Faculty

Dr. Tsuyoshi Tanaka

Dr. Ikramuddin Aukhil

Dr. Wagner Duarte

Dr. Jia Chang

Dr. Poliana Mendes

Duarte

Dr. Karin C Schey

Ms. Alline T Teles

## II. Course Goals

The goal of this course is to provide students an overview of periodontal surgical cases and procedures beyond the disease control stage of treatment in maintaining patient health outcomes.

## III. Course Overview

This course is open to 3DN and 4DN students.

Prerequisite: Successful completion of:

DEN6421C: Periodontic Treatment Planning and Disease Control,

DEN7422C: Periodontal Surgery for the General Practitioner

This course will utilize seminar case-based presentations and a hands-on simulated laboratory to facilitate student learning.

## IV. Course Outline

Presentation topic 1- Periodontal flap surgery

Presentation topic 2- Functional crown lengthening

Presentation topic 3- Esthetic crown lengthening

Presentation topic 4- Atraumatic extraction/Ridge preservation

Presentation topic 5- Guided tissue regeneration

Presentation topic 6- Guided bone regeneration

Presentation topic 7- Pre-prosthetic surgery

Presentation topic 8- Mucogingival surgery

Presentation topic 9- Sinus lift

Presentation topic 10- Strategies to become a successful candidate in a periodontology residency.

Laboratory 1: Preform suturing, site preservation, bone grafting

## V. Course Material

*DEN7422C Course Materials*

Laboratory: Models and materials for this course are provided by Geistlich Pharma.

## VI. Course Objectives

Overall: Gain an understanding of the indications, contraindications and appropriate presurgical assessment which relate to advanced periodontal surgical therapies.

### **Periodontal flap surgery (Open flap debridement, osseous surgery, distal wedge procedure)**

Identify indications and contraindications of periodontal flap surgery.  
Discuss pocket elimination and reduction surgery.

### **Functional crown lengthening**

Defend the rational of functional crown lengthening procedures.  
Describe the process of performing incisions, flap elevation, flap positioning, osseous reduction and suturing.

### **Esthetic crown lengthening:**

Observe diagnostic implications of esthetic crown lengthening.  
Diagnose different altered passive eruption types.

### **Atraumatic extraction/Ridge preservation**

Appreciate the rational of ridge preservation.  
Describe methods to preserve bone volume.  
Discuss how to do teeth extractions with minimum invasion.  
Describe the classifications of bone substitute materials.

### **Guided tissue regeneration**

Summarize the concept of tissue regeneration.  
Discuss healing of periodontal tissue.

### **Guided bone regeneration**

Describe the concept of Primary Closure, Angiogenesis, Stability, Space-Maintenance (PASS Principle).  
Using critical thinking skills, analyze the variety of techniques to achieve successful bone regeneration.  
Discuss different suture techniques.

### **Periprosthetic surgery/Pre-orthodontic treatment**

Describe the indications for periprosthetic surgery.  
Observe the Periodontally Accelerated Osteogenic Orthodontics (PAOO) concept to facilitate bone regeneration and faster teeth movement.

### **Mucogingival surgery**

Classify types of gingival recession.  
Discuss different techniques to treat gingival recession.

Observe the technique of gingival augmentation via free gingival grafting.

### **Sinus lift**

Compare the indication and contraindication of sinus lift procedures.

Compare and contrast the crestal and lateral approaches to a sinus lift.

Differentiate approaches to elevate the sinus membrane.

### **Strategies to become a successful candidate in a post-doctoral periodontal program**

Appreciate the skills needed to become a strong candidate in a periodontology residency program.

Familiarize yourself with the application process and timelines for periodontal residency programs.

### **Hands on: Suture, site preservation, bone grafting**

Perform a variety of suture techniques.

Complete a bone grafting technique after tooth extraction.

Complete a bone harvesting technique by using a scraper.

Appreciate self-awareness of case complexity, personal surgical skills and professional responsibilities to determine when surgical care should be referred to a specialist.

## **VII. Course Competencies**

This elective course contributes to formative teaching in the following UFCD Competencies:

### Domain I: Critical Thinking

1: Critical Thinking: Use critical thinking and problem-solving, including their use in the comprehensive care of patients, scientific inquiry and research methodology.

2: Evidence-Based Patient Care: Access, critically appraise, apply and communicate scientific and lay literature as it relates to providing evidence-based patient care.

3: Apply biomedical science knowledge in the delivery of patient care.

### Domain II: Professionalism

4: Ethical Standards: Apply principles of ethical decision making and professional responsibility.

5: Legal Standards: Apply legal and regulatory concepts related to the provision and/or support of oral health care services.

6: Appropriate Referral Provide oral health care within the scope of general dentistry to include recognizing the complexity of patient treatment and identifying when referral is indicated.

### Domain VI: Patient Care

#### A. Assessment, Diagnosis, and Treatment

12: Patient Assessment, Diagnosis, Treatment Planning and Informed Consent: Provide oral health care within the scope of general dentistry to include patient assessment, diagnosis, comprehensive treatment planning, prognosis, and informed consent.

## B. Establishment and Maintenance of Oral Health

14: Assessment of Treatment Outcomes: Provide oral health care within the scope of general dentistry to evaluate the outcomes of treatment, recall strategies and prognosis.

20: Provide oral health care within the scope of general dentistry to include periodontal therapy.

## VIII. Evaluation

Students will receive a Satisfactory (S) grade in this course through participating in a minimum of 8 of the 10 case-based learning seminars **and** satisfactory completion of the simulation lab assignments.

Students will receive an Unsatisfactory (U) grade in this course through participating in fewer than 8 case-based learning seminars **and/or** the simulation lab assignment(s) are incomplete by the due date.

### Remediation:

A student that receives an Unsatisfactory (U) grade in this course must meet with the Course Director to determine a remediation plan that may include viewing the recordings, writing a synopsis of the case(s), and attending a make-up simulation lab.

## IX. Administrative Practices

Administrative practices for all UFCD courses are universally applied. Exceptions to or deviations from these practices are stated in the individual syllabi by the course director. When not individually stated in the syllabus, course administrative practices default to those identified under "Course Policies" on the DMD Student Website:

<https://dental.ufl.edu/education/dmd-program/course-policies/>

## X. Grade Scale

This course has a Satisfactory (S) / Unsatisfactory (U) grade scale.