

# DEN8462 - Summer 2021

## Course Description:

Advanced information and treatment modalities for complete and partially edentulous patients with special problems. Concepts and theories such as resilient liners, implants, cast gold occlusal surfaces, cast metal base dentures; also an introduction to maxillofacial prosthetics and management of patients with palatal anomalies.

## I. General Information

### Course Director:

Course Director: Carlos Soucy/ Panagiotis Zoidis

Office: D39-D

Email: csoucy@dental.ufl.edu

Phone: 352-2735850

Course Credits: 1

Semester: Summer

Office Hour: Wednesday 12:00 pm to 1:00 pm Office D9/36 Dr. Soucy or D9/06 Dr. Zoidis

### Contributing Faculty

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### Support Staff

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Grade Administrator			

## II. Course Goals

The goal of this course is to give you exposure to advanced clinical treatment planning to provide optimal care for your patients. The emphasis on the importance of implant distribution; biomechanics and restoration design and how these factors can contribute to patient complications, expose students to new topics of treatment planning, sleep apnea, achieving predictable results with digital dentistry, and use of the new ceramic materials.

## III. Course Overview

Course instruction will include lectures and a small group seminar.

There will be lectures by faculty and invited private practice specialists on presenting treatment options to patients, private practice, laboratory communications, treatment of sleep apnea with intraoral appliances, computer-guided surgery, and digital dentistry.

Clinicians are seeing an increase in biological, mechanical, and technical complications associated with these rehabilitations. Presentation and your seminar case will focus on key factors in treatment planning; implant reconstructions, such as implant position, prosthesis design, occlusion, and maintenance. The importance of implant distribution; biomechanics and restoration design and how these factors can contribute to complications will be discussed.

The course will also include:

- Advanced information and treatment modalities for complete and partially edentulous patients with special problems
- Dental ceramics update
- Concepts and theories such as resilient liners
- Implants on posteriors and management of implants in the esthetic zone
- Computed guided surgery for implant placement
- New ceramic materials used for crowns and fixed partial dentures
- Treatment planning and management from a private practice point of view
- General concepts in the treatment of obstructive sleep apnea
- The interaction of the dentist with the medical specialist in the area
- Types of oral appliances and their indication
- Achieving predictable results with digital dentistry

In the seminar portion of this course, you will work in groups to analyze treatment options and develop a treatment plan with alternative options for advanced patient care.

Students will study a clinical case provided with virtual casts, medical and dental charts, panoramic and periapical radiographs. Four questions are going to be asked in the written

format of each case assigned and based on the answers an open discussion will utilize critical thinking and evidence-based dentistry.

## IV. Course Outline

1. Introduction and Maxillofacial Prosthodontics
2. Implants and Esthetics.
3. Prosthodontic Advanced Treatment Planning
4. New Ceramics
5. Sleep Apnea
6. Private Practice & Treatment Planning
7. Digital Dentistry, a Reality Today?
8. Case Discussions

## V. Course Material

Dental Lit Guide: <http://guides.uflib.ufl.edu/dental>

## VI. Course Objectives

### 1. **Maxillofacial Prosthodontics**

1. Discuss prosthetics and the role of the dentist in the rehabilitation of patients who have had head/neck surgery.
2. Distinguish the role of the dentist in the treatment and rehabilitation of the head and neck cancer patient.
3. Identify those patients who need maxillofacial prostheses.
4. Differentiate between intra-oral and extra-oral (facial) maxillofacial prostheses.
5. Name two methods of treatment of head and neck cancer, which can be used separately or in combination.
6. Recognize the role of dentists in the rehabilitation of patients who have been irradiated in the head and neck area.

### 2. **Implants & Esthetics**

1. Explain the use of dental implants as the primary choice to restore function and esthetics in the rehabilitation of patients.
2. Identify biological, mechanical, and technical complications associated with these rehabilitations.
3. Recognize the most common oral rehabilitation complications when using dental implants.
4. Discuss the role of implants distribution; biomechanics and restoration design and how these factors can contribute to complications will be discussed

3. **Prosthodontic Advanced Treatment Planning**
  1. Evaluate occlusal vertical dimension (OVD), occlusal plane, and remaining dentition.
  2. Recommend and design appropriate prostheses.
4. **New Ceramics**
  1. Describe different ceramics used in dentistry with a focus on lithium disilicate and zirconium oxide ceramics
  2. Demonstrate applications of ceramics and discuss their limitations
  3. Show some cases and results about longevity
5. **Sleep Apnea**
  1. Identify medical/dental implications of OSA.
  2. Discuss the functions and side effects of OSA.
  3. Discuss the dentist's screening, managing, and referral to the appropriate health care providers.
6. **Private Practice & Treatment Planning**
  1. Discuss sequencing and coordination of treatment.
  2. Describe how you would communicate with the dental laboratory.
  3. Analyze difficult restorative cases presented
7. **Digital Dentistry, a Reality Today?**
  1. Recognize the types of intraoral scanning available in the market
  2. Compare conventional impressions with the digital impression workflow process.
  3. Explain the dental laboratory digital process for the fabrication of CAD-CAM restorations.
  4. Discuss advantages and disadvantages of digital vs. conventional techniques to create restorations.
  5. Communicate the process to create quality digital restorations predictably.

Review the case assigned before the seminar, review relevant evidence related to this case and be prepared to address the questions posted for your case (in writing and orally.) See detail below: Treatment planning and case presentation are required for a successful private practice. You have been treatment planning since you entered the clinic in your junior year. You have also been very focused on getting the requirements necessary to graduate.

We want to return your attention to thorough data collection for developing a treatment plan. We will emphasize communication with the commercial laboratory. The class is divided into 6 seminar groups. Each student needs to identify his/her group and the date that the group is scheduled to meet. Students will pair or will team with up to three other students within the group to complete the written exercise.

Each member of each seminar group will need to review the case for their group in Canvas a week before the seminar. In Canvas there is a copy of the medical/dental history and the data collection for the assigned patient. The patient models are scanned, videotaped and photographs are available in Canvas.

Each group of students will submit the answers to the four questions online in Canvas on the Monday before your seminar.

**You must attend a seminar on the scheduled date and time set by the course director.**

You will lose points if you do not attend the seminar. We expect you to be prepared to participate in the discussion. The group will have 50 minutes to discuss your patient. All students attending the seminar will be graded on their participation in the seminar. Any students who have a conflict due to a rotation or special situation, please see Dr. Soucy or Dr. Zoidis **one week in advance** of the scheduled session.

Students who are not present due to illness should notify the Office of Academic Affairs.

## VII. Course Competencies

This course teaches the following competencies in the [\*"Competencies for the New Dental Graduate"\*](#).

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.

Domain II: Professionalism

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

19: Provide oral health care within the scope of general dentistry to include replacement of teeth including fixed, removable, and dental implant prosthodontic therapies.

## VIII. Evaluation

**Attendance and participation in the seminar are MANDATORY.** Students on rotation must view the video lecture recordings and/or review the posted presentations.

The following methods will be used to evaluate the student:

1. A written examination consisting of multiple-choice questions (note: short essay questions may be included) will be based on the material presented in the lectures.
2. Preparation and participation in the assigned treatment planning seminar
3. Written assessment and treatment plans.
  - Missed written examinations (other than on scheduled rotation) will require a doctor's note and if excused, the make-up exam will be either an essay or oral examination. The make-up examination must be scheduled within 2 business days of the missed exam or the student's return to school. The highest attainable grade on a missed exam is an 85%.
  - Due to time constraints, there are no retake examinations during (within) courses. Students should be required to demonstrate that they can pass examinations they fail. This can be completed during the week set aside for remediation.
  - If a course is failed, an "E" grade will be issued and the student will remediate the course.

#### **Grades Weights:**

**Students will be evaluated as follows:**

**Examination (70%)**

**Preparation & Participation in seminar (10%)**

**Written assessment and treatment plan(s) (20%)**

#### **Remediation:**

Students must meet with the course director and schedule to take a comprehensive oral examination that will cover both the didactic and seminar course material.

Exam Soft will proctor your exams this semester. Exam Soft is an online proctoring service that allows you to take your exam from the comfort of your home. You DO NOT need to create an account, download software, or schedule an appointment in advance. Exam Soft is available 24/7 and all that is needed is a computer, a working webcam, and a stable Internet connection. If you encounter issues within the LMS, you may contact Your School's Online Support Services team at their number.

## **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

<b>DEN8462 Grade Scale</b>	
<b>Method</b>	Letter Grade
<b>Scale</b>	100
<b>Tolerance</b>	0.5 (Final letter grades within this range will be rounded up.)
<b>A</b>	95 - 100
<b>A-</b>	90 - 95
<b>B+</b>	86 - 90
<b>B</b>	82 - 86
<b>B-</b>	80 - 82
<b>C+</b>	74 - 80
<b>C</b>	72 - 74
<b>E</b>	0 - 72