

## **SYLLABUS**

COURSE: DENS 2801 Oral and Maxillofacial Surgery I:  
Preclinical Oral & Maxillofacial Surgery  
SEMESTER: Spring  
CREDIT HOURS: 1.0

REVISED: 2006  
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COURSE DIRECTOR: George D. Suchko, D.D.S.

## GOAL

This preclinical course introduces you to oral and maxillofacial surgery and prepares you for clinical experience with dentoalveolar surgery. You will learn to thoroughly assess your patient. You will learn to effectively diagnose and treat basic oral surgical problems encountered in general practice.

You will be exposed to the basic principles of surgery, explicitly oral surgery. The course will emphasize the concepts of patient management: medical and dental history taking, review of systems, tissue handling, and wound repair. You will learn basic surgical principles associated with uncomplicated and complicated exodontia, soft tissue mucoperiosteal flap design, aseptic technique and surgical armamentarium. Other areas of emphasis will be assessing the importance of vital signs and assessing bleeding disorders as they relate to the surgical patient. The informed consent process and medicolegal issues will be presented in the context of the clinician's duty and responsibility as it relates to standard of care issues and the surgery patient.

Another goal is to teach you to develop an organization of thought in patient/case presentation. This will be **STRONGLY** emphasized in clinic. This component of the course is the framework for how you will conduct yourself in the clinical aspect of oral surgery patient care. It is also the structure or format that the competency examinations that you are required to pass will consist of.

This is a "qualifying course," thus you must demonstrate a minimal proficiency of 70% to practice oral surgery in the UTDB clinics.

## OBJECTIVES

### I. PRINCIPLES OF SURGERY

1. Describe the scope of the Oral and Maxillofacial surgery practice.
2. Describe and perform an adequate patient health status evaluation.
3. Describe the following patient assessment concepts and how it affects decision making:
  - 3.1 chief complaint
  - 3.2 history of present illness
  - 3.3 past medical history
  - 3.4 past surgical history
  - 3.5 review of systems
4. Describe how to assess your "Data" and formulate a working diagnosis and treatment plan.

#### **Asepsis**

5. Describe the principles of aseptic technique.
6. Describe and demonstrate how to properly gown and glove.
7. Describe and demonstrate how to set up a surgical tray in an aseptic manner and to properly set up your surgical operatory.

#### **Suturing**

8. Describe and demonstrate the basics of suturing techniques which are reinforced in the hands-on lab.

### II. REVIEW OF SYSTEMS

1. Describe the assessment process of a patient with each of the following medical conditions and be able to differentiate the severity of their problems and how it may affect the manner in which you manage the patient:

Time does not permit detailed discussions on each element that follows. It is anticipated that you will continue to build your knowledge base in this area in the various courses you will take. The most important learning tool is patient care experiences – the more scenarios you are exposed to, the more you will learn.

- 1.1 cardiovascular diseases (hypertension, angina, congestive heart failure, MI, coronary artery disease; terminology associated with these problems: CABG, Angioplasty, Pacemaker)
- 1.2 respiratory diseases - asthma, pneumonia, COPD, URI,
- 1.3 hepatic diseases/problems - hepatitis, cirrhosis, coagulopathies, metabolic disorders
- 1.4 endocrine disorders - diabetes, thyroid disorders (hypo-/hyper-), adrenal (endogenous/exogenous)

- 1.5 neurologic disorders--epilepsy, seizure disorders (petite mal grand mal, temporal), stroke (CVA)
- 1.6 renal disorders
- 1.7 bleeding disorders (to be discussed separately)

### III. VITAL SIGNS

- 1. Comprehensively describe and state the importance of the following as they relate to oral surgery procedures:
  - 1.1. blood pressure
  - 1.2. pulse
  - 1.3. respirations
  - 1.4. temperature
  - 1.5. height / weight
  - 1.6. level of consciousness

### IV. WOUND REPAIR

#### **Soft tissue, Bone, and Extraction Site Healing**

- 1. Describe the types of tissue damage, and the impact these types of injury may impart on the healing process.
- 2. Describe the different cellular components of wound healing
- 3. Describe how the healing process works and the stages of healing in soft tissue and bone.
- 4. Describe the length of time required for soft tissue healing and for extraction sites, and the process of extraction site healing

### V. BASIC TECHNIQUES OF GOWNING AND GLOVING

### VI. PRINCIPLES OF UNCOMPLICATED EXODONTIA

- 1. Differentiate between uncomplicated and complicated exodontia.
- 2. Describe the principles of forceps and elevators.
- 3. Identify and describe the instruments used for the various uncomplicated exodontia.
- 4. Describe what is necessary for appropriate post-operative care.
- 5. Interpret radiographs required for uncomplicated exodontia.
- 6. Describe contraindications to extraction.
- 7. Describe and demonstrate techniques and chair positioning for uncomplicated exodontia that will be reinforced in a hands-on lab.

VII. PRINCIPLES OF COMPLICATED EXODONTIA

1. Describe circumstances that increase the complexity of exodontia procedures.
2. Describe when to use a surgical flap, the type of flap required, and the rationale for their use.
3. Describe various complications that can result during exodontia.
4. Describe what alveoloplasty is, how to perform it, and most importantly why it is necessary.
5. Describe post-operative complications and their management.

VIII. ASSESSMENT OF BLEEDING DISORDERS

1. Describe and perform an adequate preoperative assessment to include lab studies.
2. Describe when a medical consultation before treatment is required.
3. Describe in detail the etiologies of bleeding disorders.
4. Describe the management of bleeding disorders during oral surgery procedures.

IX. PRESCRIBING ANALGESICS FOR POST-SURGICAL PAIN MANAGEMENT

1. Understand the reasons for prescribing analgesics.
2. Understand pain pathways and pain mediators.
3. Explain why the following should be prescribed:
  - 3.1 acetoaminophen
  - 3.2 nonsteroidal anti-inflammatory agents
  - 3.3 Schedule II and III agents
4. Explain the side effects of analgesics and alternative prescribing.
  - 4.1 differentiate untoward or intolerant reactions
  - 4.2 differentiate allergic reactions
  - 4.3 antiemetic agents
5. Long-acting local anesthetics

X. THE INFORMED CONSENT PROCESS

1. Describe the informed consent process as it relates to
  - 1.1 the responsible party
  - 2.1 elements that are mandated legally
2. Describe how an appropriate pre-surgical consent must be accomplished.
3. Describe the elements associated with the delineation of liability

## RESOURCES

### I. Media Resources

#### A. Printed media

##### 1. Required textbook

Peterson, L.J., Ellis, E., Hupp, J.R., and Tucker, M.R.  
*Contemporary Oral and Maxillofacial Surgery*, 4<sup>th</sup> ed.  
C.V. Mosby Co., St. Louis, 2003

##### 2. Supplemental reading

There are numerous texts in the library that you are encouraged to reference that complement the presented subject matter; however the material in this course will follow the required textbook and the lectures.

#### B. Non-printed media

Videotapes:

*Aseptic Technique*  
*Gowning and Gloving Technique*  
*Operatory Set-up*

### II. Human Resources

George D. Suchko, D.D.S.  
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## STUDY PLAN AND REQUIREMENTS

This course consists of a series of lecture sessions, required textbook reading assignments, and an extraction technique and suturing technique laboratory session, a mid-term and a final exam, and unannounced quizzes. The laboratory sessions will demonstrate to you the applied methods of

patient positioning for surgery,  
extraction techniques with forceps and elevators, and  
suturing techniques using pigs' feet.

As stated in other sections of this syllabus, you must successfully complete this course with an average of 70%, or you cannot perform oral surgery procedures in the clinics.

## Laboratory Assignments

All laboratory sessions are done in groups, and ***it is imperative that group assignments are followed.*** Groups are listed below.

Group A	Group B	Group C	Group D
Abramian, Jared	Harden, Jeffrey	Naderi, Sanjar	Steffen, Matt
Arguelles, Kim	Jaynes, Brian	Nguyen, Minh	Tavakkoli, Angela
Benomoz, Nicole	Johnson, Brian	Nguyen, Danny	Teeple, Ashley
Bui, Anh	LaGrone, Nealan	Pahlavan, Paymon	Thompson, Ryan
Burakowski, Carolina	Latiolais, Try	Pham, James	Thurber, David
Cantu, Rose	Le, Anh	Phan, Kathy	Thurber, Phoebe
Carter, Joshua	Lent, Melissa	Quach, Huy	Tran, Maria
DeLeon, Christina	Loveless, Ryan	Rodgers, Shawn	Tran, Nancy
Edgemon, Amy	Marblestone, Ginger	Rodriguez, Gracie	Trevino, Lisa
Elgawley, Nyhale	McFarlane, John	Rosellini, Jill	Tsai, Alicia
Fossum, Andrew	Miller, Ronald	Ruiz-Musetti, Valeria	Upchurch, Scott
Guerra, Vanesa	Moino, Christina	Sabbahi, Rabab	Wang, Pam
Haffner, Amelia	Molandes, Jennifer	Shepard, Laren	Westbrook, Brad
Hamidi, Rosita	Moran, Amy	Shevchenko, Liza	Wilson, David
Hanis, Shad	Moreland, Jason	Silvertooth, Chad	Wright, Justin

**DENS 2801 ORAL AND MAXILLOFACIAL SURGERY I  
2006 Spring Semester Schedule**

Sessions: Thursday, 8-8:50 am; Room 132, unless otherwise indicated.  
See schedule for lab times.

DATE	SESSION TOPIC / LABS
Jan 5	<b>SESSION 1</b> -What Is Surgery; Principles of Surgery Peterson's - chapter 1 (Dr. Suchko)
Jan 12	<b>SESSION 2</b> -Health Status Evaluation (This is an introductory course to clinical oral surgery. We will discuss the more commonly encountered "problems". You <u>will</u> gain confidence and competence through other courses that will present this material in greater detail, and through clinical experience you will be able to correlate the didactic information with the clinical presentation.) Peterson's - chapter 1 & 2 (Dr. Suchko)
Jan 19	<b>SESSION 3</b> - Surgical Wound Repair (includes soft tissue and extraction site healing) – Part I – Chapter 4 (Dr. Wong)
Jan 26	<b>SESSION 4</b> - Wound Repair - Part II – Chapter 4 (Dr. Wong)
Feb 2	<b>SESSION 5</b> - Armamentarium for Basic Oral Surgery Surgical Instruments: The surgical tray contents and description of elevators and forceps and their utilization. Chapter 6 Aseptic Technique, Operatory Set- Up, and Gowning and Gloving Video Presentation. (Dr. Suchko and Ms. Adkisson)
Feb 9	<b>SESSION 6</b> - Principles of Uncomplicated Exodontia Peterson's - Chapter 7 (Dr. Wilson)
Feb 16	<b>SESSION 7</b> - Principles of Complicated Exodontia and Alveoloplasty <b>ASSIGNMENT</b> - Read Peterson's - Chapter 8; Chapter 1, pp. 18-19; & Chapter 11 (Dr. Wilson)
Feb 23	<b>SESSION 7</b> – Complications Associated with Exodontia: Assessment and Management - Chapter 11 (Dr. Marchenas)
Mar 2	<b>MID-TERM EXAMINATION</b> <span style="float: right;"><b>Rooms 132 and 446</b></span>
Mar 6-10	<i>Spring Break</i>
Mar 16	<b>SESSION 8</b> - The informed consent process and oral surgery. Chapter 12 (Dr. Suchko)
Mar 23	<b>SESSION 9</b> - Medicolegal Considerations / Record documentation. Chapter 12 (Dr. Whitmire)
<b>Mar 28</b> <b>1-5:00 pm</b>	<b>LAB</b> <b>Group A (15 students ONLY: Abramian - Hanis)</b> Hands on laboratory session for suturing and extraction techniques Group A will go to the Extraction Lab @ 1:00 pm in Bay 'A', then rotate to the Suturing Lab @ 3- 5:00 pm, location TBA.

<b>DATE</b>	<b>SESSION TOPIC / LABS</b>
<b>Mar 28</b> <b>1-5:00 pm</b>	<b>LAB</b> <b>Group B (15 students ONLY: Harden - Moreland)</b> Hands on laboratory session for suturing and extractions techniques Group B will go to the Suturing Lab @ 1:00 pm in location TBA, and then rotate to the Extraction Lab from 3-5:00 pm
Mar 30	<b>SESSION 10</b> - Assessment of bleeding disorders and their surgical concerns. Lecture material/handout will be e-mailed to your class. (Dr. Suchko)
<b>Apr 4</b> <b>1-5:00 pm</b>	<b>LAB</b> <b>Group C (15 students ONLY: Naderi – Silvertooth)</b> Hands on laboratory session for suturing and extractions techniques Group C will go to the Extraction lab @ 1:00 PM in Bay 'A', then rotate to the Suturing Lab @ 3- 5:00 PM - location TBA.
<b>Apr 4</b> <b>1-5:00 pm</b>	<b>LAB</b> <b>Group D (15 students ONLY: Steffer - Wright)</b> Hands on laboratory session for suturing and extractions techniques Group D will go to the Suturing Lab @ 1:00 pm in a location TBA, and then rotate to the Extraction Lab from 3-5:00 pm
Apr 6	<b>SESSION 11</b> – Pain Management: Overview of pain pathways and the prescribing of analgesics. Dr. Suchko
Apr 13	<b>SESSION 12</b> - Review session (Please submit subject areas you would like me to review NLT March 27. Send your request to me at <a href="mailto:george.d.suchko@uth.tmc.edu">george.d.suchko@uth.tmc.edu</a> ) <b>Course Evaluation</b>
<b>May 8</b> <b>1-2:50 pm</b>	<b>FINAL EXAMINATION</b> <span style="float: right;"><b>Room 207</b></span>

## EVALUATION METHODS

Your successful completion of this course will be based on the following criteria which will determine your final grade.

Mid-term examination* .....	40%
Final examination*.....	60%

Communication, both written and oral, is the cornerstone of healthcare. Effective dialogue is imperative between the patient and the doctor, and doctor-to-doctor. Part of the grading criteria will be based on this element. Essay and/ or discussion questions will not only be evaluated for content, but also for **organization of thoughts, conciseness, relevance, and grammatical correctness**. This is an effective method to assess this element of your subject matter understanding as **this is what you will be required to do in the clinical setting**.

The final exam will include 20-30% of material from the first half of the semester. Mid-term and final examination formats will be similar: approximately 60-70% will be multiple-choice questions with the other 30-40% being ESSAY or discussion questions. Make up examinations will be similar in format. This is a preclinical course, and successful completion requires a minimum grade of 70%. **If you score less than 75% on your mid-term, I strongly suggest you meet with me to assess "WHY" so that corrective measures can be taken.**

In order to be allowed to perform oral surgery procedures in the UTDB clinics you must pass this course. In order to take the third year course, DENF 3801 OMFS III: Advanced Oral and Maxillofacial Surgery, you must pass this course. This course is the foundation for practicing any type of oral surgery. The material is basic and fundamental to your long-term success in patient management.