

# THE UNIVERSITY OF TEXAS SCHOOL OF DENTISTRY

## —ELECTIVES—

### **DBEC 1102 (Spring) Ethics Video (Telecommunication) (0.5 cr)**

1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> Yr

**Instructors:** Long, Ben Warner

**Limits:** Max 16

**Prerequisite:** DENF 1621 Ethics in Dentistry

**Location:** PACE Center, TBD

**Description:** This elective provides a forum for the creation of a video for entry in the ADA Student Ethics Video Contest and must meet the guidelines of the ADA Video Contest and the approval of the sponsoring faculty. The video should draw attention to the ethical dilemmas that dental students and dentists may encounter and/or new categories that maybe included in the ADA contest. This elective provides an opportunity for students to consider ethical decision-making and to foster those character traits that adhere to ethical principles that may be utilized throughout their continuing education and subsequent professional career.

**Instruction:** Seminars as needed

**Evaluation:** Completion of video no more than 4 ½ minutes in length.

### **DBEB (Fall) 2201 – Business Basics for the Dental Professional (0.5 cr.)**

1<sup>st</sup> & 2<sup>nd</sup> Year

**Instructor:** Welch

**Limits:** 100 maximum

**Prereq.:** None

**Day & Time:** TBA

**Description:** The goal of this elective is to offer the beginning dental student the opportunity to learn more about setting priorities in personal and business financial management and planning. The student will be introduced to basics in budgeting, banking and saving, investing and in controlling and managing debt.

**Method of instruction:** Seminar setting, using Canvas for some assignments and exercises.

**Evaluation:** Project completion

### **DBEB/DBEC (Fall/Spring) 2202 - Geriatric Oral Health Care Needs in the Community Service-Learning Opportunity (1.5 cr.)**

3<sup>rd</sup> & 4<sup>th</sup> Year

**Instructors:** Sadowsky

**Limit:** 10 maximum

**Prerequisite:** Instructor Approval

**Day & Time:** Six sessions

**Description:** Students are invited to participate in teams to assess the status of geriatric oral health in community centers. Learners will have the opportunity to acquire the skills of observation, communication, examination and professionalism. Students have a myriad of chances to intercede in and make better the life of the community dwelling community elders with their focus on the oral and dental well-being of the participants. It is essential to interact with the family and caregivers who maintain or improve physiological, psychological and social well-being of the participants and will involve collaboration with an interdisciplinary team to analyze hindrances in access to care and make appropriate recommendations about an oral health problem resolution involving the elderly.

**Week 1: (3<sup>rd</sup> week of semester)** Present participating sites to the students. Students will be assigned to one of three locations or others as needed

1. 600 Telephone Road
2. 75 Lyerly (I 45 North at Airline)
3. 7225 Belle rive (Off 59/69 between Hillcroft and Bellaire Blvd)

Student teams will be assembled. Contextual information delivered and students will be given overview of timeline to the project as well as elective goals.

**Week 2: (4<sup>th</sup> week):** Orientation – Explain the common oral manifestations of systemic diseases in the geriatric adults, discuss the barriers to care for the elderly in Texas, and explain the geriatric survey to be used during the interviews. Also, review HIPAA with the students to de-identify the surveys. Instruction will be given for information dissemination during elective.

**Week 3: (5<sup>th</sup> week)** Conduct mock interviews between students to practice conversing with the geriatric population.

**Week 3 – 12 (5<sup>th</sup> – 15<sup>th</sup> week):** Schedule participants (site managers will assist in recruiting residents). Make two visits to the same site with a minimum of 6 weeks between visits. The first visit will be conducted with student leaders or Dr. Sadowsky. Students will see the minimum 5 participants for individual interviews and oral care product delivery. If the resident is willing, discuss medications and possible oral interactions. Discuss access to care, physician/medical care, proper oral hygiene implementation, and any other oral health concerns.

**Week 13 & 17:** Students present “Lunch and Learn” (two/three teams per session) Students will discuss their experience with their assigned community, survey statistics, and potential solutions to resolving the communities’ barriers to oral health care.

**Method of instruction:** Hands-on participation in several community participant cases with life review, methods of evaluation of oral health instructions.

**Evaluation:** Attendance, self-evaluation, oral inquiry, participation in preparation and delivery of Student Lunch and Learn.

**DBEB/DBEC 2203 Introduction to Temporomandibular Joint Disorders for the General Dentist (0.5 cr)**2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>**Limits:** 20 max**Instructor:** AbdelFattah**Day/Time:** Tue, noon

**Description:** This course is intended to introduce students to the basics of the group of disorders known as Temporomandibular Joint Disorders (TMD). After reviewing the anatomy of the head and neck and the epidemiological prevalence of TMD, we will dive further into the pathological mechanisms of pain that often contribute to the group of disorders. We will also go over a medical history taking, head and neck exam, and relevant diagnostic tests and imaging. Basic treatments for various types TMD conditions, and review a number of systemic disorders that may contribute to TMD as well. Additionally, the psychological aspects of pain will be reviewed, as well as the importance of a multidisciplinary approach to treating this patient population. Time permitting, the students will have an opportunity to pair up and complete a thorough head and neck exam, as well as take impressions and bite registration on one another, and fabricate a properly designed occlusal appliance.

**Objectives:** Understand the epidemiological prevalence of TMJ disorders. Understand joint disorders, musculoskeletal disorders, as well as systemic diseases that may contribute to TMD conditions. Be able to appropriately use the correct tools and diagnostic aids as needed. Identify, treat or refer patients with TMD pain as needed. Understand the on-going research and its value to the advancement of the field. Understand that TMD patients are best managed with an inter-disciplinary approach

**Evaluation:** Oral, class interaction, and attendance.

**DBEA (Summer) 3051 PEDI Cleft Lip/Palate Multi-Disciplinary Observation (1.5 cr)**3<sup>rd</sup> Yr**Instructor:** Hanson-Kiss**Limits:** 2 max**Instructor approval required.** Students must apply.**Day/Time:** 8:30 am -1 pm, Wed, with variations

**Description:** Surgical /dental observation of pediatric patients with complex orofacial conditions at Shriners Hospital. One observation session in Missouri City requiring own transportation. This elective will expose students to a multi-disciplinary clinic to gain insight into the medical and surgical management of children with orofacial clefting from a standpoint of the various providers on the team. Within the Shriners Hospitals Cleft Clinic, students will observe clinical and surgical/dental management of orofacial clefting patients with Plastic Surgery, Orthodontics, Oral Maxillofacial Surgery, Pediatric Dentistry, Genetics, Speech, and ENT. Each week, students will be assigned to shadow a specialty at the Wednesday multi-disciplinary clinic. Students will observe at least 1 surgical/dental procedure with each specialty. At the conclusion of the elective, students will complete a case study of a standardized patient from a multi-disciplinary standpoint. Since each student will observe with each specialty only once, if a student misses an observation and is unable or unwilling to reschedule, they will fail the elective. While every effort will be made to only schedule a student for 1 clinical and 1 surgery/dental observation each week, if needed, a student could arrange multiple surgery/dental observations in the same week.

To observe at Shriners Hospital's for Children, students will be required to complete an Observation Request that is submitted at least 5 business days prior to the start of the rotations: Observation form, letter of good standing from UT SOD, copy of current vaccinations/immunizations, and copy of UT SOD badge.

**Objectives:**

- 1) Be able to describe the medical and surgical management of children with orofacial clefting: understand timing and goals for treatment.
- 2) Obtain experience with a high volume, fast-paced multi-disciplinary clinic environment.
- 3) Identify how multiple disciplines collaborate to provide optimal patient care.
- 4) Identify developmental milestones, physical features, and family history that may be indicative of an underlying genetic syndrome.

**Method of Instruction:** Clinical observation**Evaluation:** Case study of a standardized patient from a multi-disciplinary standpoint.**DBEC (Spring) 3409 – Clinical Specialty Clerkship Honors in Periodontics (1.0 cr.)**3<sup>rd</sup> Year**Instructor:** Eswaran**Limits:** 4 max**Prereq.:** Instructor approval**Day/Time:** TBA

**Description:** Students must have completed all third year Periodontic experiences through the fall of the 3<sup>rd</sup> year and have achieved at least an 85% average in all Periodontics courses. Students must be in the top 25% of their class. It is expected that the student would gain experience in prescriptive surgical procedures such as crown lengthening and exposure to more sophisticated soft tissue grafting and esthetic procedures. Students will have the opportunity to plan and treat an implant case in conjunction with a senior resident and the faculty.

**Objectives:** The purpose of this course will be to provide the student with an advanced experience in clinical Periodontics. The general objective will be to integrate the 4<sup>th</sup> year student as much as practical into the postgraduate Periodontics experience in anticipation of application to a postgraduate program in Periodontics.

**Method of instruction:** Clinical**Evaluation:** Project completion, oral, and faculty evaluation

**DBEB (Fall) 4108 – Forensic Odontology** (0.5 cr.)2<sup>nd</sup>, 3<sup>rd</sup>, or 4<sup>th</sup> Year**Instructor:****Limits:** 15 minimum**Prereq.:** None**Day & Time:** Th 12-12:50 pm**Description:** This elective course will introduce the participant to the field of forensic science, focusing on forensic dentistry.Participants will be required to attend a series of five **sessions** and take a final written

exam on the material presented.

**Objectives:**

1. Understand the scope of forensic dentistry
2. Understand the role of forensic pathology, forensic anthropology, forensic photography, and forensic dental radiology
3. Understand human dental identifications, child abuse issues, and bite mark investigations
4. Understand dental jurisprudence and dental record keeping

**Method of instruction:** Lecture and participation**Evaluation:** Final written exam comprised of multiple choice, short answer, and matching questions. Students must attend at least

4 of the 5 sessions to receive credit for this elective course. Students attending all 5 sessions are exempt from the written exam.

Students are advised to check their rotation and personal schedules prior to registering.

**DBEB, DBEC, DBEA (Fall, Spring Summer) 4004 – Intellectual Disability Inter-Professional Care** (0.5 cr.)4<sup>th</sup> Year**Instructor:** Fray, Warner, B.**Limits:** 10 max**Prereq.:** DENS 2961, DENF 3971**Day & Time:** Wed & Fri, 12-12:50 pm**Description:** This elective course aims to provide 4<sup>th</sup> yr. students with an introduction to the treatment needs of adults with IDD and the importance of an integrated care plan with behavioral specialists, physicians and nurses. Students will spend sixteen (16) hours total for the class with two three-hour sessions at the Baylor College of Medicine Transitional Care Clinic and ten one-hour didactic sessions learning proper case selection, facial dysmorphism concerns, treatment planning, incremental desensitization and case coordination.**Objectives:**

1. Introduce the fundamentals of dental evaluation/treatment planning for patients with Intellectual Disability.
2. Describe the major types of patients with intellectual and developmental disabilities (IDD) and their dental common conditions and complex medical co-occurring needs,
3. Discuss inter-professional interaction with physicians, behavioral specialists and nurses for collaborative care planning and sequencing of treatment to prepare students for clinical interaction with other professionals.
4. Describe the behavioral challenges and intensive adaptive interventions for patients with IDD.
5. Review the evidence based clinical best practices for collaborative interdisciplinary care (IDC).
6. Provide the student with case study review for patients with IDD comprehensively treated in an IDC clinic

**Method of instruction:** Lecture and clinical**Evaluation:** Final written exam comprised of multiple choice, short answer, and essay. Project completion. Students are advised to check their rotation and personal schedules prior to registering.**DBEC (Spring) 4122 – Advanced Forensic Odontology** (0.5 cr.)2<sup>nd</sup>, 3<sup>rd</sup> or 4<sup>th</sup> Year**Instructor:****Limits:** 15 maximum**Prereq.:** Instructor Approval, DBEB 4108**Day & Time:** Th 12-12:50 pm, Room 5315**Description:**

This elective will provide the dental student with practical experience in the field of forensic odontology. Students must have successfully completed DBEB 4108 Forensic Odontology. Participants will be required to attend a series of five sessions, take part in simulated forensic activities, participate in a tour of the Harris County Forensic Science Center with the class and take a final written exam on the material presented.

**Objective**

Produce a dental graduate with the level of skill and competence in forensic dentistry expected of a general dental practitioner, or an effective participant with local, state, or federal authorities in civil or criminal matters requiring their expertise.

**Method of instruction:** Lecture and participation**Evaluation:** Final written exam comprised of multiple choice, short answer, or matching questions. Students must attend at least 4 of the 5 sessions to receive credit for this elective course. Students attending all 5 sessions are exempt from the written exam.

Students are advised to check their rotation and personal schedules prior to registering.

**DBEC (Spring) 4208 – Teaching Preclinical Operative** (1.0 cr.)

4<sup>th</sup> Year

**Instructor:** Patel

**Limits:** 4 max

**Prereq.:** Instructor Approval

**Day & Time:** TBA

**Description:** Operative Dentistry taught to students by students under faculty supervision.

**Objectives:** To expose fourth year dental students to academic teaching. Strengthen student's operative skills and gain an understanding of 1<sup>st</sup> year dental students.

**Method of instruction:** Pre-clinical lab teaching experiences

**Evaluation:** Attendance/Observation

**DBEB/DBEC (Fall/Spring) 4210 – Sleep Apnea in Clinical Dental Practice** (0.5 cr.)

4<sup>th</sup> Year

**Instructor:** Levine, P.

**Limits:** None

**Prereq.:** None

**Day & Time:** TBA

**Description:** This elective will provide necessary information graduating seniors will have proper knowledge to screen patients for the presence of sleep apnea. The causes of OSA, the co-morbidity of OSA, the physiology of OSA, and the current treatments available to treat OSA will be discussed.

**Objectives:** The course will allow student to:

- (1) Understand the anatomical causes of OSA
- (2) Understand the physiological consequences of OSA
- (3) Be able to screen patients for OSA
- (4) Understand the current treatments for OSA
- (5) Be familiar with the concept of polysomnography
- (6) Describe the role of the dentist in the screening for and treatment of OSA according to current Texas State Board of Dental Examiners Rule 108.12 (Dental Treatment of Sleep Disorders)

**Method of instruction:** Lecture

**Evaluation:** Multiple Choice

**DBEB/DBEC (Fall/Spring) 4211 – Advanced Sleep Apnea in Clinical Dental Practice** (0.5 cr.)

4<sup>th</sup> Year

**Instructor:** Levine, P.

**Limits:** None

**Prereq.:** DBEB/DBEC 4210

**Day & Time:** TBA

**Description:** This elective will provide the student with the knowledge to understand the steps involved to successfully treat patients with oral appliances for sleep apnea. The first half of the course will be didactic, and the second half will be hands on in the operatories and lab. The students will pair up and take impressions and bite records on each other. They will learn proper titration techniques of oral appliances. This knowledge base will hopefully lead them to further their education after graduation to pursue treating patients with breathing disorders.

**Objectives:** The course will allow student to:

- (1) Learn advanced anatomy and physiology associated with sleep disordered breathing.
- (2) Be able to perform a comprehensive exam for evaluating if a patient is a candidate for oral appliance therapy.
- (3) Learn the objectives for successful treatment with oral appliance therapy.
- (4) Learn how oral appliances work to open the pharyngeal airway.
- (5) Take impressions and a bite record for the construction of a mandibular advancement appliance.
- (6) Construct a morning aligner and understand its rationale for use.
- (7) Discuss side effects and complications of oral appliance therapy.
- (8) Learn the parameters of care for oral appliance therapy according to the AADSM.
- (9) Learn the proper titration techniques to lead to successful treatment with an oral appliance Texas State Board of Dental Examiners Rule 108.12 (Dental Treatment of Sleep Disorders).

**Method of instruction:** Lecture

**Evaluation:** Project completion

**DBEC (Spring) 4304 – Clinical Specialty Clerkship Honors in Endodontics** (1.0–2.0 cr.)

4<sup>th</sup> Year

**Instructor:** Dorn

**Limits:** 2 maximum

**Prereq.:** Instructor approval

**Day & Time:** TBA

**Description:** Students must be in the upper half of the class. Student need to submit an application to the Department of Endodontics by November 1. Notification of selection will be in early December. Selected students would still need to complete all minimal essential endodontic experiences and all endodontic competencies. Clerkship curriculum:

1. Participation in Graduate Endodontics Case Presentation Seminar and in the Graduate Endodontics Current Endodontic Literature Seminar.
2. Assist or treat patients, as available, in the Graduate Endodontics Clinic

**Objectives:** Afford selected students the opportunity to gain additional knowledge and clinical experience in Endodontics through more advanced patient treatment and attendance at graduate Endodontic Presentation seminars and Literature seminars.

**Method of instruction:** Clinical

**Evaluation:** Faculty evaluation and patient care

**DBEB/DBEC (Fall/Spring) 4605 – Clinical Specialty Clerkship Honors in Prosthodontics** (1.0 cr.) 4<sup>th</sup> Year  
**Instructor:** Belles **Limits:** 8 maximum  
**Prereq.:** Instructor approval **Day & Time:** TBA  
**Description:** Students must have completed all third year courses, be in good academic standing, recommended by their 3<sup>rd</sup> year Group Leader and have the approval of their Practice Leader. Students will be exposed to an advanced level of prosthodontic care and will be required to document a patient's complete treatment, resulting in a case presentation to the department faculty, residents and fellow honor students.  
**Objectives:** To help students understand screening, diagnosis, and treatment planning procedures for advanced prosthodontics cases. Assist students with documentation of prosthodontic cases suitable for presentation for continuing education. To introduce students to clinical teaching and stimulate interest for advanced training in prosthodontics.  
**Method of instruction:** Clinical  
**Evaluation:** Faculty evaluation of patient treatment, clinical teaching, and end of course presentation.

**DBEB/DBEC (Fall/Spring) 4706 – Oral and Maxillofacial Surgery Externship** (2.0 cr.) 4<sup>th</sup> Year  
**Instructor:** Demian **Limits:** 2 maximum  
**Prereq.:** Instructor approval, completion of third year third year oral and maxillofacial surgery requirements. **Day & Time:** TBA including  
**Description:** The course will be an intensive block of time (minimum two weeks, preferably one month or longer) in which the student will work in hospital outpatient clinics, take facial trauma call with residents every third night, and get exposure to emergency room and operating room protocol.  
**Objectives:**  

1. To allow students considering specializing in oral and maxillofacial surgery an opportunity to be exposed to the full scope of the specialty.
2. To learn the expectation of OMFS training.
3. To gain experience working in a hospital setting.
4. To gain experience in outpatient surgery
5. To gain insight in evaluating OMFS training programs.
6. To allow the faculty to evaluate potential residents for the OMFS training program.

**Method of Instruction:** Special project  
**Evaluation:** Project completion

**DBEC (Spring) 4712 – Clinical Specialty Clerkship Honors in OMFS** (2.0 cr.) 4<sup>th</sup> Year  
**Instructor:** Gilbert **Limits:** 2-6 maximum  
**Prereq.:** Instructor approval **Day & Time:** TBA  
**Description:** Students must have passed 2801, 3801 with a NBDE Part I score >88 and ranked in first quintile. Selected students will be given the opportunity to (1) perform more complex dentoalveolar surgery procedures, (2) develop skills using a surgical handpiece, and (3) be exposed to parenteral sedation techniques under the supervision of oral surgery attending faculty. All scheduled surgery procedures will require faculty approval and will require the participant to have another dental student assistant.  
**Objectives:** The course is intended to allow dental students interested in the specialty of oral and maxillofacial surgery to gain clinical experience performing more complex dentoalveolar surgery to include third molars. Additionally, the student will learn to start IV lines and administer parenteral anesthetics under the supervision of the attending oral surgery faculty.  
**Method of instruction:** Clinical  
**Evaluation:** Clinical Performance

**DBEC (Spring) 4801 – Clinical Specialty Clerkship Honors in Orthodontics** (1.0 – 2.0 cr.) 4<sup>th</sup> Year  
**Instructor:** English **Limits:** 4 maximum  
**Prereq.:** Instructor approval **Day & Time:** TBA  
**Description:** Students who have demonstrated exceptional academic and Clinical performance with an interest in Orthodontics as a specialty and have the approval of their Practice Leader will be provided advanced training in orthodontic diagnosis and treatment prior to beginning a residency program in orthodontics.  
**Objectives:** During February through May, selected students will have the opportunity to participate in performing orthodontic diagnosis, treatment planning and more complex treatment on orthodontic cases under the supervision of attending orthodontic faculty. The course is intended to expose the student to sound principles of diagnosis, patient management and clinical judgment. Students are also expected to attend all seminars, meetings and clinic during 1-2 half-day sessions each week.  
**Method of instruction:** Clinical  
**Evaluation:** Oral inquiry

**DBEB (Fall) 4802 – An Introduction to Clear Aligner Treatment** (1.0 cr.)4<sup>th</sup> Year**Instructor:** Harris**Limits:** 100 max**Prereq.:** DENS 2961, DENF 3971**Day & Time:** Wed & Fri, noon

**Description:** This elective aims to provide 4<sup>th</sup> yr. dental students with an introduction to orthodontics clear aligner treatment, with emphasis on Invisalign®. Students will spend sixteen(16) one hour sessions in both the didactic and laboratory setting learning proper case selection, biomechanics of aligner treatment, software manipulation, and patient management and treatment with clear aligners.

**Objectives:**

1. Introduce the student to the fundamentals of clear aligner therapy, with focus on Invisalign®
2. Describe the use of clear aligner therapy to treat non-complex orthodontic malocclusions; cases that can and cannot be treated with clear aligners will be described.
3. Introduce the student to clear aligner software and its applications in treatment planning, particularly the ClinCheck® software by Align®
4. Describe the biomechanical considerations when performing orthodontic movements using clear aligners
5. Discuss adjunctive features of clear aligner therapy, including attachments and interproximal reduction
6. Provide the student with examples of cases comprehensively treated with clear aligner therapy

**Method of instruction:** Lecture, laboratory**Evaluation:** Short answer, Essay, project completion**DBEC (Spring) 4901 – Advanced Cardiac Life Support** (1.0 cr.)4<sup>th</sup> Year**Instructor:****Limits:** 1 minimum-10 maximum**Prereq.:** Instructor approval**Day & Time:** One time only—dates to be arranged (Th, F - 1-5, Sa - 8-5)

**Description:** Students will receive training in the diagnosis and treatment of cardiac emergencies. This includes textbook assignments and lectures on background material, as well as hands-on practice of the techniques on life-like manikins and simulators. This is an intensive program ending with both written and practical evaluation. Students achieving at least 84% on written tests and passing marks on performance tests are recognized by the American Heart Association as ACLS Providers.

**Objectives:** Objectives of the ACLS program include:

1. Performing rapid, accurate diagnosis of cardiac emergencies.
2. Performing proper treatment of cardiac emergencies including:
  - a. basic life support,
  - b. use of adjunctive equipment for ventilation and circulation,
  - c. monitoring and dysrhythmia recognition,
  - d. starting and maintaining an IV, and
  - e. employing drug and electrical therapies. **Method of**

**Instruction:** Lecture, laboratory **Evaluation:** Skills testing, oral, multiple choice**DBEB/DBEC (Fall/Spring) 5001 – Table Clinic** (0.5-2.0 cr.)1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** TBA**Limits:** None**Prereq.:** None**Day & Time:** TBA**Description:** TBA**Objectives:** TBA**Method of Instruction:** Table clinic**Evaluation:** TBA**DBEB/DBEC (Fall/Spring) 5002 – Thesis, Literature Review** (0.5-2.0 cr.)1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** TBA**Limits:** None**Prereq.:** None**Day & Time:** TBA**Description:** TBA**Objectives:** TBA**Method of Instruction:** Thesis**Evaluation:** Project completion: term paper

**DBEB/DBEC/DBEA (Fall/Spring/Summer) 5003 – Investigative Research (0.5-2.0 cr.)**

1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years

**Instructor:** TBA

**Limits:** None

**Prereq.:** None

**Day & Time:** TBA

**Description:** TBA

**Objectives:** TBA

**Method of Instruction:** Research

**Evaluation:** Project completion

**DBEB/DBEC (Fall/Spring) 5004 – Special Projects (0.5-2.0 cr.)**

1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years

**Instructor:** TBA

**Limits:** None

**Prereq.:** None

**Day & Time:** TBA

**Description:** TBA

**Objectives:** TBA

**Method of Instruction:** Special project

**Evaluation:** Project completion

**DBEB/DBEC (Fall/Spring) 5007 – Humanities and Ethics: Art of Observation (0.5 cr.)**

1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years

**Instructor:** Franklin

**Limits:** 20 (Fall), 12 (Spring)

**Prereq.:** None

**Day & Time:** TBA

**Description:** Observation, description and interpretation are essential skills in clinical diagnosis. These talents are also requisite in the visual arts. Thus, if health science students can improve their skills of observation in a safe environment by first looking at art, this will translate into enhanced skills when observing medical and dental photographs, virtual scenarios and, ultimately, when caring for the whole patient. In a novel collaboration between the Museum of Fine Arts at Houston and the UT Medical School and School of Dentistry, students can spend three evenings (5:30-7:30) at the Museum enhancing their observation and communication skills. Under the direction of experienced art educators and UT faculty, students are provided with a unique learning opportunity that encourages the use of both sides of the brain in a fun and stimulating environment. Attendance at all sessions, participation in a focus group and the writing of a reflective paper are required for this elective. This elective is sponsored by the McGovern Center for Humanities and Ethics

**Objectives:** At the conclusion of the course, students should be able:

1. To foster interprofessional dialogue for improved patient care through the clinical humanities and ethics.
2. To enhance observation skills.
3. To enhance interprofessional communication skills.

**Method of Instruction:** Lecture

**Evaluation:** Attendance/Essay/Participation

**DBEB/DBEC (Fall/Spring) 5008 – Humanities and Ethics: Ethics, Historical Lessons (0.5 cr.)**

1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years

**Instructor:** Franklin

**Limits:** 15

**Prereq.:** None

**Day & Time:** TBA

**Description:** This online and interprofessional course will explore ethics through the perspective of historical case studies and movies. Events in history will be analyzed for the role of health care providers and policy makers in acts that in retrospect many of us question the ethics of the people involved. Examples include the response of communities and governments to infectious diseases, such as AIDS and leprosy, research issues including informed consent and research integrity, such as the Tuskegee experiment, as well as the history of the central role played by physicians, dentists and nurses in planning and implementing genocide in the name of eugenics and racial hygiene during the Holocaust and other genocides, such as Rwanda. The course will focus on exploring the lessons we can learn from history as we confront the challenges of problems in today's society and in the future. Students may select 6 or more lectures that will be posted on Blackboard and watch one movie during the semester. In addition, a brief reflection paper (3-typed pages) regarding the lectures and the movie that the student selected to watch and their impact on their perspective of these ethical issues will be required. This elective is sponsored by the McGovern Center for Humanities and Ethics

**Objectives:** At the conclusion of the course, students should be able:

1. To identify and analyze events in history using an ethics framework.
2. To apply principles of ethics to the analysis of current and past events.
3. To analyze the lessons that can be learned from history and apply them to current biomedical issues.

**Method of Instruction:** Online

**Evaluation:** Essay

**DBEC (Spring) 5009 – Humanities and Ethics: Mental Illness, Humanities** (0.5 cr.)1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** Franklin**Limits:** 6**Prereq.:** None**Day & Time:** TBA

**Description:** What is the moral meaning of mental illness? What is it like to be mentally ill? How can we, as healthcare professionals, best care for sufferers of mental illness, as well as their families and friends? To answer these questions, we turn to sufferers and their loved ones themselves, as this elective explores memoirs of mental illness – a literary genre sometimes referred to as “pathography.” Each session will focus on pathography of mental illness, including texts such as William Styron’s *Darkness Visible* (a memoir of depression/melancholia) and Kay Jamison’s *A Unquiet Mind* (a memoir of bipolar disorder/manic-depression). The final reading list for the elective will be distributed in December. This elective is reading-intensive, and each class meeting will be discussion-based – that is, the class meetings will be conducted as a humanities-style graduate seminar led by students. This elective is sponsored by the McGovern Center for Humanities and Ethics

**Objectives:** The students will demonstrate their knowledge of:

1. To foster interprofessional dialogue for improved patient care through the clinical humanities and ethics
2. To initiate interprofessional discussions on human behavior and social justice in health care
3. To develop skills in reflective thinking to better understand an individual based on personal, cultural and social influences

**Method of Instruction:** Seminar

**Evaluation:** Reading/Participation in class discussion

**DBEB/DBEC (Fall/Spring) 5111 – Dental Insurance Management in Private Practice** (0.5 cr.) 3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** Gibson**Limits:** 40**Prereq.:** None**Day & Time:** TBA

**Description:** This elective will serve to provide students a foundation of managing dental insurance as they enter private practice as either an associate dentist or practice owner. Accurate and ethical coding and billing will be emphasized. A working knowledge of dental insurance will also allow students to accurately evaluate the financial implications of plan participation.

**Objectives:** The students will demonstrate their knowledge of:

1. Understand the organization and utilization of CDT procedure codes and be able to determine proper coding and billing protocols for treatment commonly provided in general practice.
2. Compare and contrast the types of dental insurance plans, the various levels of provider status available and financial considerations of joining as a contracted provider.
3. Navigate the electronic life-cycle of a dental insurance claim from its creation in the practice management software to its payment by direct deposit.

**Method of Instruction:** Seminar

**Evaluation:** Project completion and attendance

**DBEB/DBEC (Fall/Spring) 5112 – Adv. Dental Insurance Management in Private Practice** (0.5 cr.)3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** Gibson**Limit:** 40 max**Prereq:** None**Day/Time:** Fri, noon

**Description:** This elective will serve to provide students with a more detailed understanding of the role of insurance and the financial implications in a variety of practice styles, including private practice, DSO’s and corporate dentistry. There will be discussions of ethical dilemmas, contracts, staff training and real world insurance considerations designed to prepare students for life after dental school.

**Objectives:** The students will demonstrate their knowledge of:

1. Demonstrate their knowledge of the utilization of CDT procedure coding and ethical billing protocol for treatment commonly provided in general practice.
2. Will be able to recognize the various types of insurance plans as well as develop in-house membership groups and financing.
3. Will be able to enroll in insurance plans and learn to negotiate insurance fees.
4. Students will learn about staff training in order to facilitate the use of insurance and the prevention of embezzlement.

**Method of Instruction:** Seminar

**Evaluation:** Project completion and attendance



**DBEB/DBEC (Fall/Spring) 5201 – Special Project in Educational Research (1.0 cr.)**1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** Quock**Limits:** 1 min**Prereq.:** Successful completion of fall semester, 1<sup>st</sup> year, DDS program. Instructor Approval**Day/Time:** TBA**Description:** Past experience has shown that some students want to experience “what dental faculty do,” including educational research. Prior to instructor approval of enrollment in this elective, students must submit a well-designed protocol for an educational research study (predicted effort must be equivalent to

1.0 credit hour). Students will conduct the research study during the academic year, culminating in the evaluation of the study and public presentation of the findings. An example of current proposal from students involves evaluating the effect on qualitative (questionnaire) and quantitative (course grades) performance of first year dental students who participate in weekly near-peer led study/learning sessions, which will be conducted by the elective enrollees.

**Objectives:** The students will demonstrate their knowledge of:

1. Identifying and educational research question/problem.
2. Designing and carrying out a project to investigate the aforementioned education research question/problem.
3. Evaluating project and its results, and present these findings in a public forum.

**Method of Instruction:** Research**Evaluation:** Project completion**DBEB (Fall) 5203 – Dental Fitness (0.5 cr.)**1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** Cooley**Limits:** 1 min**Prereq.:** None**Day/Time:** TBA**Description:** This elective is designed to stress the importance of taking care of the individual's body as it is subject it to the rigors of performing four-handed dentistry. It will cover principles of how stressors occur; ergonomic preventive guidelines; strength, flexibility and conditioning techniques; and how to take care of the individual for a lifetime of practice. Current evidence based studies will be part of the elective, along with accepted training principles.**Objectives:** The students will demonstrate their knowledge of:

1. Understand why dentists are physically at risk due to occupational hazards and learn how to minimize these risks.
2. Understand the importance of fitness in everyday dental practice.
3. Understand the relationship of flexibility, aerobic activity, and strength in dental fitness.
4. Recognize which muscles are at risk due to physical stress in dentistry.
5. Learn practical ways to increase flexibility in and outside the office.
6. Recognize proper techniques for physical stretching.
7. Know which muscles should be targeted and which ones should be cautiously addressed when undergoing strength training.
8. Perform “hand on” stretches that can be used daily in the dental office.
9. Learn basic ergonomic principles used in four-handed dentistry.
10. Learn how to establish a personal exercise program tailored to dental professionals.
11. Understand how to best utilize a fitness trainer, if one is utilized.
12. Know when to seek medical guidance and know what options are available.

**Method of Instruction:** Lecture**Evaluation:** Project completion**DBEB/DBEC (Fall/Spring) 5205 – Humanities and Ethics: Sacred Sites (1.0 cr.)**1<sup>st</sup>, 2<sup>nd</sup>, Years**Instructor:** Franklin**Limits:** 1 min**Prereq.:** None**Day/Time:** Sat, 10-noon**Description:** This course will introduce students to various religions of Houston and great Harris County. By visiting places of worship and interacting with faith members, the topic of faith and impacts on health will be addressed. Religions that have been covered in the course in the past include Christianity, Islam, Hinduism, Judaism, Buddhism and Baha'ism. The course consists of 6 site visits, each 2 hours long, and a final de-briefing session. Each site visit includes a visit to a place of worship and discussion with a religious leader. A lunch with congregation members may be provided if possible. Every attempt will be made for a congregation member to recount a disease journey and its interaction his/her faith. Students are required to attend at least 5 of the 6 site visits, participate in a pre and post course evaluation, write a reflection paper of the course and participate in a post-course debriefing session to receive elective credit. Make up for missed session will consist of a 500 word essay on the missed site.**Objectives:** The students will demonstrate their knowledge of:

1. Introduce students to the teachings of diverse religions and the physical and emotional environment of diverse places of worship
2. Present an introduction of faith and spirituality in the context of health and disease.
3. Engage students in reflective thinking of their role in acknowledging and addressing a patient's religion and spirituality in the context of treatment.

**Method of Instruction:** Six site visits and a de-briefing session**Evaluation:** Pre-and post-course evals, post-course reflection paper

**DBEB/DBEC (Fall/Spring) 5908 – Evaluation Presentation Scientific Research (1.0 cr.)**1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** Fakhouri/Kasper**Limits:** 4 min/16 max**Prereq.:** None**Day/Time:** Thu, 12-1

**Description:** This elective is available to all dental students who desire to improve their oral presentation skills and knowledge about current research in a stimulating and critical-thinking environment. Students who participate in this elective will orally present scientific articles or their own research results if they have sufficient data, including background information from published studies. The scientific articles and topics will be assigned by the instructors; however, students are encouraged to propose other relevant topics or studies. Instructors will provide information about how to formulate an informative and effective presentation for 40-45 minutes. Presenters will explain the strengths and weaknesses of their data and the rationale for their approach at the end of their presentations. Participants will ask questions and fill out an anonymous short evaluation for each presenter.

**Objectives:** Participants will:

1. Have an opportunity to improve their presentation skills
2. Develop and formulate informative and appealing presentations
3. Learn about current research and clinical findings in dental and craniofacial research areas
4. Improve critical thinking skills
5. Read scientific articles and explain scientific data and models
6. Be encouraged to introduce practical examples for Evidence-Based Dentistry
7. Evaluate the strengths and weaknesses of each presentation.

**Method of Instruction:** Oral presentations**Evaluation:** Presentations, attendance and participation**DBEC (Spring) 6201 – Color and Appearance: Theory and Practice (1.0 cr.)**2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** Paravina**Limits:** 4 min**Prereq.:** Instructor approval**Day/Time:** W, 12-1

**Description:** Students will learn some appearance attributes such as gloss, surface roughness, transparency, translucency, opalescence, fluorescence, and phosphorescence. Color corrections of restorative materials and tooth bleaching will be covered as well. In addition, the student will learn about clinical shade matching and participate in a color training program using custom designed software.

**Objectives:** To learn about color and its application in dentistry.**Method of Instruction:** Lecture, exercises**Evaluation:** Attendance and completion of the class assignment**DBEB/DBEC (Fall/Spring) 6801 – Honors in Pediatric Dentistry (1.5 cr.)**3<sup>rd</sup>, 4<sup>th</sup> Years**Instructor:** Herbert**Limits:** 4**Prereq.:** Instructor Approval**Day:** Mon./Tues.

**Description:** This elective is directed toward students who have a strong interest in pursuing pediatric dentistry upon graduation. It is intended to allow the student to further their knowledge in the field gaining a broader perspective and more detailed knowledge of pediatrics.

**Objectives:** Students will choose from the following list to present to the Pediatric Dentistry club. References to include no fewer than five recently published articles on the topic of choice.

1. Fluoride and new fluoride therapies
2. Pulp/vitality/therapy (diagnosis, procedure, old and new materials)
3. Sedation dentistry
4. The changing face of behavior guidance
5. Anticipatory guidance, OHI and talking to the parent
6. Childhood obesity
7. Special needs/medically compromised Patients
8. Common and new dental materials in pediatric dentistry

**Instruction:** Literature Review /Shadowing in Clinic **Evaluation:** Project Completion

**DBEB/DBEC (Fall/Spring) 7001 – Interactive Oral Pathology (1.0 cr.)****Instructor:** Clark/CD Johnson**Prereq.:** DENS 2706I**Description:** The course is a participation-driven seminar designed to make students more comfortable and knowledgeable when discussing oral pathology. A series of clinical cases will be presented and discussed each week. The discussion will focus on describing pathologic lesions, providing a reasonable differential diagnosis, and knowing the proper course of action to take when oral pathologic lesions are discovered. Those enrolled in the elective will be evaluated by their level of participation and a final oral evaluation.**Objectives:** After completion of the course, the participants will be able to:

1. Better recognize when a pathologic lesion is present in the oral cavity.
2. Become comfortable using proper terminology when discussing pathologic lesions.
3. Be able to provide a differential diagnosis for common pathologic entities.
4. Know the proper course of action for when pathologic lesions are discovered.

**Method of Instruction:** Case Presentation/Participation**Evaluation:** Oral Participation3<sup>rd</sup>, 4<sup>th</sup> Years**Limits:** 100**Day:** Tues.**DBEB/DBEC (Fall/Spring) 7115 – Pediatric San Jose Clinic (0.5 cr.)****Instructor:** Cardenas**Prereq.:** Instructor Approval**Description:** Students under Pediatric dentistry faculty supervision will perform appropriate dental treatment for the San Jose pediatric patients. San Jose is a non-profit community based dental clinic with 13 chairs located in downtown Houston. Students will provide their own transportation to the clinic. A case presentation of treatment rendered will be showed at a group meeting of all participants. The time and place will be announced. Student must attend two Saturday sessions per semester.**Objectives:**

1. To gain clinical experience in Pediatric dentistry.
2. To become familiar with non-profit, community based dentistry.
3. To compare the difference between school based and non-profit dental service delivery.

**Method of Instruction:** Hands-on participation**Evaluation:** Case presentation3<sup>rd</sup>, 4<sup>th</sup> Years**Limits:** 15**Day:** Saturdays**DBEB/DBEC (Fall/Spring) 7208 – Urgent Care (1.0 cr.)****Instructor:** CD Johnson**Prereq.:** None**Description:** Students, under faculty supervision, will perform appropriate dental treatment for Urgent Care.**Objectives:** To gain clinical experience in general dentistry.**Method of Instruction:** Clinical supervision**Evaluation:** Attend eight clinic sessions3<sup>rd</sup>, 4<sup>th</sup> Years**Limits:** 40**Day & Time:** TBA**DBEC (Spring) 7210 – Oral Medical Examination (1.0 cr.)****Instructor:** Paravina**Prereq.:** Instructor approval**Description:** All participants will be required to complete two sessions of full head and neck and oral medical examination on new patients. The sessions will be held in the urgent care or assessment clinics under supervision by faculty instructors on the elective.**Objectives:** The main objective of this elective is to emphasize proper and thorough head, neck and oral soft tissue examination to the dental students within a clinical setting. Students should be able to describe any lesions found, give differentials and suggest subsequent course of action.**Method of Instruction:** Lecture, open discussion, patient examination, debriefing period**Evaluation:** Oral3<sup>rd</sup>, 4<sup>th</sup> Years**Limits:** none**Day & Time:** W, 12-1**DBEC 7212 (Spring) Multiple Shades of Gray (1.0 cr)****Instructor:** Gibson, Ben Warner**Prereq:** Elective DBEB 7211 Looking at Dentistry in Shades of Gray**Description:** This course is intended to be an extension of the original DBEB 7211 elective, where dental students were presented with clinical case situations and posed ethical and profession conflict. Students will have the opportunity to define an ethical issue that may occur in dental school or early in their career and develop a response. A special project will be designed by the student under the mentorship of the instructors to provide a format for the resolution and may take the form of a PowerPoint Presentation, a paper suitable for publication, a poster suitable for publication at a dental meeting, or pamphlet or survey used to gain additional information.**Method of Instruction:** Lecture, research**Evaluation:** Project completion; attend class meetings.3<sup>rd</sup>, 4<sup>th</sup> yr**Limits:** 5 max**Day/Time:** Wed, noon

**DBEB/DBEC (Fall/Spring) 7701 – Traumatic Injuries (0.5 cr.)**

3<sup>rd</sup>, 4<sup>th</sup> Years

**Instructor:** Gilbert

**Limits:** 15 max

**Prereq:** DENS 2801

**Day/Time:** Weekend (one 24-hour period). Assignments will be made by instructor.

**Description:** The student will be on call with the oral and maxillofacial surgery resident at Ben Taub Hospital over a 24-hour period. During that time period, all patients with traumatic injuries to the head and neck region will be seen for diagnosis and treatment of their problems. After the completion of the 24-hour period, the student submits a written report describing the diagnosis and treatment of all patients.

**Objectives:** To learn more about patients with traumatic injuries of the head and neck, and to observe, and assist in the diagnosis and treatment of such patients.

**Method of Instruction:** Clinical

**Evaluation:** Term paper

**DBEB/DBEC/DBEA (Fall/Spring/Sum) 7706 – Advanced Education in General Dentistry**

3<sup>rd</sup>, 4<sup>th</sup> Year

**(AEGD) Mini-Residency (1.0 cr.)**

**Instructor:** Kiat-Amnuay

**Limits:** 20 max

**Prereq.:** Instructor approval, satisfactory didactic/clinical progress.

**Day/Time:** TBA

**Description:** Students will sign up for one full week (Monday-Friday) with the Advanced Education in General Dentistry (AEGD) Residency Program. Activities will include:

1. Observe and assist AEGD residents in clinical patient care activities.
2. Attend all seminars and conferences.
3. Treat dental emergency patients presenting to AEGD dental clinic under direct faculty supervision.

**Evaluation:** Pass/Fail upon completion

**DBEB (Fall) 7211 – Looking at Dentistry in Shades of Gray (0.5 cr.)**

3<sup>rd</sup>, 4<sup>th</sup> Year

**Instructor:** K. Gibson/B. Warner

**Limits:** 50 max

**Prereq.:** None

**Day/Time:** Wed, noon

**Description:** This elective offers dental students an opportunity to address ethical issues of confidentiality, access to care and the various forms of informing patients including advertising, financial arrangements and verbal/signed consent. The dental student will discuss ethical decision making that involves judging and deciding when there is an obligation to treat or a valid reason not to treat. The elective will strive to demonstrate that to be a dental professional, one must have integrity, be competent and care for others.

**Objectives:** This course will present dental students with clinical case situations that pose ethical and professional conflicts. The dental student is expected to actively participate in discussing differences and possible conflicts of legal, ethical and moral standards. The aim of a profession is to regulate itself for the public good. This elective is to aid the participant, as a member of the dental profession, in recognizing and embodying positive principles, judgements and conduct to promote the highest ethical standards.

**Method of Instruction:** Clinical

**Evaluation:** Attend 6 of 8 classes = Pass

**DBEB \_\_\_\_\_ (Fall) Intro to Minimally Invasive Prosthodontics: Resin Bonded FPD (0.5 cr)**

2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup> Yr

**Instructor:** Aponte

**Limits:** Max 20; Min 10

**Prereq:** None

**Day/Time:** Thu, noon

**Description:** The goal of this course is to introduce the student to the evolution of minimalistic restorations, indications, and the updated materials utilized for bonding and cementing restorations. It is designed to teach the attendee to evaluate the factors that create a restoration utilizing minimally invasive prosthodontics techniques. Clinical situations will be presented for discussion, and analog and digital techniques will be compared. Students will prepare either one anterior minimalistic restoration, either analog or digital.

**Method of Instruction:** Lecture, Lab

**Evaluation:** Term paper, oral presentation