

ADVANCED EDUCATION PROGRAMS (DBPG)

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DBPG 1001 Conscious Sedation I (1 Credit)

Whitmire. 1 SH. Summer This course will encompass the principles of sedation patient selection, the pharmacology and physiology of certain anesthesia-related topics and limited clinical assignments. The lectures will be concerned primarily with nitrous oxide conscious sedation. Clinical proficiency in the delivery of nitrous oxide is not evaluated in this course, although, didactic requirements for nitrous oxide sedation are fulfilled. This course will complete in the fall semester. Letter Graded

DBPG 1002 Conscious Sedation II: (Pharm/Physiol) (1 Credit)

Whitmire. 1 SH. Fall The second of two courses, this section of conscious sedation directs its attention to principles and practice of other forms of sedation including oral, intravenous, and intramuscular approaches. This is primarily a didactic course with little clinical management, more clinical application to the patient's history, and clinical presentation. Conscious Sedation I is a prerequisite for Conscious Sedation II. Letter Graded

DBPG 1007 Practice Management (1 Credit)

Ayilavarapu. 1 SH. Fall This course is intended for the student in the final year of matriculation, and will discuss associateships, buying and borrowing, staffing, financial planning-personal insurance and computerization of the dental office. Letter Graded

DBPG 1008 Graduate Oral Radiology (1 Credit)

Key.1 SH. Spring This course offers an in-depth study of skull and related extraoral radiograph techniques. The resident will be introduced to panoramic radiology as well as Direct Digital imaging, both intraoral and extraoral. Localization techniques, image manipulation, and networking will also be presented in this course. Letter Graded

DBPG 1009 Interdisciplinary Research Seminar I (1 Credit)

Kasper 1 SH. Fall This seminar series exposes the graduate student to the various research projects occurring in other disciplines in the School of Dentistry as well as other areas of the Medical Center. Presentations will be given by graduate students as well as guest scientists from other institutions in the Medical Center and Rice University. Letter Graded

DBPG 1010 Interdisciplinary Research Seminar II (1 Credit)

Kasper 1 SH. Spring This seminar series exposes the first-year graduate student to the various research projects occurring in other disciplines in the School of Dentistry as well as other areas of the Medical Center. Presentations will be given by graduate students as well as guest scientists from other institutions in the Medical Center and Rice University. This course meets at noon every Wednesday. It is required for first-year orthodontic residents for both fall semesters. Interdisciplinary Research Seminar II (DBPG 1009) is a prerequisite for this course. Letter Graded

DBPG 1011 Interdisciplinary Research Seminar III (1 Credit)

Kasper 1 SH. Fall This seminar series exposes the second-year graduate student to the various research projects occurring in other disciplines in the School of Dentistry as well as other areas of the Medical Center. Presentations will be given by graduate students as well as guest scientists from other institutions in the Medical Center and Rice University. This course meets at noon every Wednesday. It is required for second-year orthodontic residents for both fall semesters. Interdisciplinary Research Seminar II (DBPG 1010) is a prerequisite for this course. Letter Graded

DBPG 1012 Interdisciplinary Research Seminar IV (1 Credit)

Kasper 1 SH. Spring This seminar series exposes the second-year graduate student to the various research projects occurring in other disciplines at UTSD as well as other areas of the Medical Center. Presentations will be given by graduate students as well as guest scientists from other institutions in the Medical Center and Rice University. This course meets at noon every Wednesday. It is required for second-year orthodontic residents for both fall semesters. Interdisciplinary Research Seminar II (DBPG 1011) is a prerequisite for this course. Letter Graded

DBPG 1081 Oral Biomaterials I (1 Credit)

Paravina 1 SH. Fall This didactic course will provide the student the opportunity to learn current concepts in the oral biomaterials applied to fixed and removable prosthodontics. Letter Graded

DBPG 1091 Oral Biomaterials II (1 Credit)

Ontiveros 1 SH. Spring This didactic course will provide the student the opportunity to learn current concepts in oral biomaterials applied to operative and esthetic dentistry. Letter Graded

DBPG 1101 Anatomy: Head and Neck (3 Credits)

Warner. 3 SH Summer This course is designed to review basic head and neck anatomy to cover details that may not have been included in a general anatomy course. Each region is treated by lecture followed by dissection. A good faculty-to-student ratio and discussion in the laboratory ensures that the material is being understood and learned. Course Fee: \$500 Letter Graded Course fee: \$500

DBPG 1106 Cell/Developmental Biology (1 Credit)

Kasper 1 SH. Fall This course will familiarize students with principles of molecular biology and provide a basic understanding of genetics and cytogenetics, and a detailed knowledge of development of the craniofacial complex, including formation of the face and the bones of the skull. A review of cell structure and reproduction is included, as well as a session on special techniques the student is likely to encounter in their studies and/or research. Letter Graded

DBPG 1110 Oral Biology:Devl, Struct, Functn Tissue (1 Credit)

Kasper 1 SH. Fall Students will be provided with a basic understanding of the developmental anatomy, light and ultrastructural microscopic features, biochemistry, and functional properties of oral tissues. In particular, emphasis will be placed on developing and adult mineralized tissues of enamel, dentin, bone, and cementum as well as pulp, periodontium, oral mucosa, and salivary glands. Advanced instruction will include information about current research advances (basic and translational) within each of the topic areas. Letter Graded

DBPG 1115 Advances Basic Sciences I (3 Credits)

Myers. 3 SH Fall Students will be provided with an advanced understanding of neurosciences and pharmacology. Topics to be covered in neurosciences may include neurotransmitters as chemical messengers; neural pathways of somatosensation; ascending sensory pathways; motor pathways; clinical entities affecting the spinal cord or peripheral nerves; clinical symptoms of cranial nerve damage; clinical syndromes of the head and neck region; pain reception and peripheral mediation; pain mediation through the dorsal horn and ascending pain pathways-structure, function and pathology; clinical pain in dentistry; and mastication and oral reflexes. Topics in pharmacology may include principles and pharmacokinetics, autonomic drugs, fluoride and anti-plaque agents, neurologic drugs, sedatives, opiate analgesics and anticonvulsants, local anesthetics, antibiotics, anti-inflammatory drugs, antihistamines and corticosteroids, cardiovascular drugs, drug laws and drug abuse, and general anesthetics. Letter Graded

DBPG 1116 Advanced Basic Sciences II (4 Credits)

Ogbureke. 4 SH Spring Students will be provided with an advanced understanding of tissue fine structure, wound healing, hemostasis, microbiology, and immunology. Topics to be covered in tissue fine structure may include cell structure, epithelia and glands, connective tissue, cartilage, bone and bone formation, other hard tissues, muscle, and peripheral blood vessels, and nerves. Topics to be covered in wound healing may include injury and the initial response, the proliferative phase of healing, epithelialization and the remodeling phase, collagen and the ground substance, angiogenesis in wound healing, healing of bone fractures, muscle and nerve repair, growth factors and wound healing, and nutrition and wound healing. Topics to be covered in hemostasis may include vascular response, endothelial hemostatic balance, platelet microanatomy, function and evaluation, extrinsic and intrinsic coagulation, acute phase response, fibrinolysis, inhibitors of hemostasis, and bleeding disorders and laboratory evaluation prior to dental treatment. Topics to be covered in microbiology may include: basic bacteriology; biofilms, plaque, caries; periodontal pathogens, pulp and periapical infection, diagnostic microbiology, oral virus infections, and oral fungal infections. Topics to be covered in immunology may include introduction, immunoglobulin and antigen-antibody reactions, innate immunity and complement, major histocompatibility complex and antigen processing, b cells and t cells, cytokines and chemokines, cell-mediated immunity and dendritic cells, immunology of wound healing, and inflammation. Letter Graded

DBPG 1304 Oral Biomaterials - Endodontics (1 Credit)

Jaramillo. 1 SH. Summer This didactic and laboratory course is designed to provide the student with the opportunity to learn the biological, chemical, and physical properties of materials used in the endodontic treatment of teeth. This course is offered and complete in the fall semester. Letter Graded

DBPG 1305 Oral Biomaterials - Orthodontics Biomechanics and Materials (2 Credits)

Julien, 2 SH Fall This didactic and laboratory course is designed to provide the student with the opportunity to learn the properties of materials used in Orthodontics. Letter Graded

DBPG 1612 Graduate Oral Pathology (2 Credits)

Ogbureke 2 SH. Fall This course is comprised of advanced lectures in oral pathology for students in the various specialties. Topics in this course include the oral manifestations of infectious diseases, inflammatory conditions, odontogenic cysts and neoplasms, selected benign and malignant neoplasms of the soft and hard tissues, salivary gland disorders and mucocutaneous diseases. Emphasis is placed on the pertinent clinical and microscopic findings, treatment, and prognosis and differential diagnosis. Letter Graded

DBPG 1804 Pulp Biology (1 Credit)

Kirkpatrick.1 SH. Summer This is a lecture/seminar course designed to provide the student with an in-depth knowledge of the dental pulp, both in health and disease. Emphasis will be placed on the embryology, microanatomy, physiology, and histology of the dental pulp. Both classic and current literature are used to highlight the various pulpal reactions to a variety of irritants, along with associated diagnostic and clinical therapeutic procedures. Letter Graded

DBPG 1911A Research - Endodontics (2 Credits)

Faculty Committee. Variable 1-6 SH. Credit given in final semester Research activity usually includes registration for one - four hours of credit per fall or spring semester, beginning either in the spring preceding graduation or fall of the terminal year. A minimum of four semester hours is required for all degree programs, except Periodontics which requires six. Refer to Graduation Requirements for additional information Letter Graded

DBPG 1911A Research - Periodontics (2 Credits)

Faculty Committee. Variable 1-6 SH. Credit given in final semester Research activity usually includes registration for one - four hours of credit per fall or spring semester, beginning either in the spring preceding graduation or fall of the terminal year. A minimum of four semester hours is required for all degree programs, except Periodontics which requires six. Refer to Graduation Requirements for additional information Letter Graded

DBPG 1911A Research - Prosthodontics (2 Credits)

Faculty Committee. Variable 1-6 SH. Credit given in final semester Research activity usually includes registration for one - four hours of credit per fall or spring semester, beginning either in the spring preceding graduation or fall of the terminal year. A minimum of four semester hours is required for all degree programs, except Periodontics which requires six. Refer to Graduation Requirements for additional information Letter Graded

DBPG 1911A Research - Pediatrics (2 Credits)

Faculty Committee. Variable 1-6 SH. Credit given in final semester Research activity usually includes registration for one - four hours of credit per fall or spring semester, beginning either in the spring preceding graduation or fall of the terminal year. A minimum of four semester hours is required for all degree programs, except Periodontics which requires six. Refer to Graduation Requirements for additional information Letter Graded

DBPG 1911A Research - Orthodontics (2 Credits)

Faculty Committee. Variable 1-6 SH. Credit given in final semester Research activity usually includes registration for one - four hours of credit per fall or spring semester, beginning either in the spring preceding graduation or fall of the terminal year. A minimum of four semester hours is required for all degree programs, except Periodontics which requires six. Refer to Graduation Requirements for additional information Letter Graded

DBPG 1911E Research-Prosthodontics (2 Credits)

Faculty Committee. Variable 1-6 SH. Credit given in final semester Research activity usually includes registration for one - four hours of credit per fall or spring semester, beginning either in the spring preceding graduation or fall of the terminal year. A minimum of four semester hours is required for all degree programs, except Periodontics which requires six. Refer to Graduation Requirements for additional information. Letter Graded

DBPG 1911F Research-Prosthodontics (2 Credits)

Faculty Committee. Variable 1-6 SH. Credit given in final semester Research activity usually includes registration for one - four hours of credit per fall or spring semester, beginning either in the spring preceding graduation or fall of the terminal year. A minimum of four semester hours is required for all degree programs, except Periodontics which requires six. Refer to Graduation Requirements for additional information. Letter Graded

DBPG 1912A Thesis - Orthodontics (2 Credits)

Faculty Committee. 2 SH. Credit given in final semester The student, in consultation with the Clinical Department Chairperson, selects a research project in a basic science area or in a clinically applied specialty area as early as possible. The Department Chairperson appoints a Thesis Committee Chairperson knowledgeable in the area of the research chosen. Other members of the Thesis Committee are chosen by the Department Chairperson and by the Thesis Committee Chairperson. Letter Graded

DBPG 1912A Thesis - Prosthodontics (2 Credits)

Faculty Committee. 2 SH. Credit given in final semester The student, in consultation with the Clinical Department Chairperson, selects a research project in a basic science area or in a clinically applied specialty area as early as possible. The Department Chairperson appoints a Thesis Committee Chairperson knowledgeable in the area of the research chosen. Other members of the Thesis Committee are chosen by the Department Chairperson and by the Thesis Committee Chairperson. Letter Graded

DBPG 1912A Thesis - Endodontics (2 Credits)

Faculty Committee. 2 SH. Credit given in final semester The student, in consultation with the Clinical Department Chairperson, selects a research project in a basic science area or in a clinically applied specialty area as early as possible. The Department Chairperson appoints a Thesis Committee Chairperson knowledgeable in the area of the research chosen. Other members of the Thesis Committee are chosen by the Department Chairperson and by the Thesis Committee Chairperson. Letter Graded

DBPG 1912A Thesis - Periodontics (2 Credits)

Faculty Committee. 2 SH. Credit given in final semester The student, in consultation with the Clinical Department Chairperson, selects a research project in a basic science area or in a clinically applied specialty area as early as possible. The Department Chairperson appoints a Thesis Committee Chairperson knowledgeable in the area of the research chosen. Other members of the Thesis Committee are chosen by the Department Chairperson and by the Thesis Committee Chairperson. Letter Graded

DBPG 1912A Thesis - Pediatrics (2 Credits)

Faculty Committee. 2 SH. Credit given in final semester The student, in consultation with the Clinical Department Chairperson, selects a research project in a basic science area or in a clinically applied specialty area as early as possible. The Department Chairperson appoints a Thesis Committee Chairperson knowledgeable in the area of the research chosen. Other members of the Thesis Committee are chosen by the Department Chairperson and by the Thesis Committee Chairperson. Letter Graded

DBPG 1912B Thesis - Periodontics (2 Credits)

Faculty Committee. 2 SH. Credit given in final semester The student, in consultation with the Clinical Department Chairperson, selects a research project in a basic science area or in a clinically applied specialty area as early as possible. The Department Chairperson appoints a Thesis Committee Chairperson knowledgeable in the area of the research chosen. Other members of the Thesis Committee are chosen by the Department Chairperson and by the Thesis Committee Chairperson. Letter Graded

DBPG 1912B Thesis- Endodontics (3 Credits)

Faculty Committee. 2 SH. Credit given in final semester The student, in consultation with the Clinical Department Chairperson, selects a research project in a basic science area or in a clinically applied specialty area as early as possible. The Department Chairperson appoints a Thesis Committee Chairperson knowledgeable in the area of the research chosen. Other members of the Thesis Committee are chosen by the Department Chairperson and by the Thesis Committee Chairperson. Letter Graded

DBPG 1920 Applied Sciences II (2 Credits)

Guajardo 2 SH. Summer This course provides the advanced student with the opportunity to understand the principles of ethics, jurisprudence and risk management, behavioral sciences, and education and teaching methodology. Letter Graded

DBPG 2001A Endodontic Clinic I (4 Credits)

Endodontic Clinic I Letter Graded

DBPG 2001B Endodontic Clinic I (4 Credits)

Endodontic Clinic I Letter Graded

DBPG 2002A Endodontic Clinic II (4 Credits)

Endodontic Clinic II Letter Graded

DBPG 2002B Endodontic Clinic II (5 Credits)

Endodontic Clinic II Letter Graded

DBPG 2002C Endodontic Clinic II (7 Credits)

Endodontic Clinic II Letter Graded

DBPG 2003A Endodontic Clinic III (4 Credits)

Endodontic Clinic III Letter Graded

DBPG 2003B Endodontic Clinic III (1 Credit)

Endodontic Clinic III Letter Graded

DBPG 2003C Endodontic Clinic III (4 Credits)

Endodontic Clinic III Letter Graded

DBPG 2003D Endodontic Clinic III (5 Credits)

Endodontic Clinic III Letter Graded

DBPG 2004A Preclinical Graduate Endodontics (1 Credit)

Kirkpatrick. 1 SH. Summer The objective of this introductory course is to present major biological and technical aspects of endodontic treatment in a seminar/laboratory setting. The student will learn various instrumentation and obturation modalities in a simulated clinical environment. The student will be expected to develop, enhance, and assess his/his clinical skills prior to beginning the clinical phase of the program. Letter Graded

DBPG 2005 Endodontic Surgery (1 Credit)

Kirkpatrick. 1 SH Spring The objective of this lecture/seminar course is to provide a comprehensive analysis of contemporary principles of endodontic surgery. At the conclusion of the course, the student will have the opportunity to acquire a sound understanding of the scientific literature and biological principles that support the surgical skills necessary to properly manage cases not amenable to nonsurgical therapy. Letter Graded

DBPG 2006A Topical Seminar in Endodontics (1 Credit)

Kirkpatrick. 1SH. Fall This seminar course presents an in-depth analysis of the biological principles and scientific foundation for all aspects of endodontic therapy. A critical evaluation of the classical and contemporary literature will be emphasized to help provide the student with a rationale for clinical treatment. Extensive readings of texts and literature along with presentation of papers directly applicable to endodontics will be required. Letter Graded

DBPG 2006B Topical Seminar in Endodontics (1 Credit)

Kirkpatrick 1 SH. Spring A continuation of topical seminar presented in DBPG 2006A Letter Graded

DBPG 2006C Topical Seminar in Endodontics (1 Credit)

Kirkpatrick 1 SH. Fall A continuation of topical seminar presented in DBPG 2006B Letter Graded

DBPG 2006D Topical Seminar in Endodontics (1 Credit)

Kirkpatrick 1 SH. Spring A continuation of topical seminar presented in DBPG 2006C Letter Graded

DBPG 2006E Topical Seminar in Endodontics (1 Credit)

Topical Seminar in Endodontics Letter Graded

DBPG 2006F Topical Seminar in Endodontics (1 Credit)

Topical Seminar in Endodontics Letter Graded

DBPG 2007 Endodontic Practice Management (1 Credit)

Kirkpatrick 1 SH Fall The course in Practice Management serves as a fundamental source of information that will enable Endodontic residents to successfully enter practice upon graduation. All areas related to a fully functioning dental practice and business management will be covered. In addition, staff management, professional ethics and legal responsibilities will be presented. The success of the course depends on dynamic discussion with participants. This will ensure that areas of prime interest are explored thoroughly. Pass/Fail

DBPG 2008 Current Literature Seminar (1 Credit)

Kirkpatrick. 1SH. Fall This seminar course is intended to broaden the student's background in endodontics through a critical analysis of the current literature. Letter Graded

DBPG 2008A Current Literature Seminar (1 Credit)

Kirkpatrick. 1SH. Fall This seminar course is intended to broaden the student's background in endodontics through a critical analysis of the current literature. Letter Graded

DBPG 2008B Current Literature Seminar (1 Credit)

Kirkpatrick 1 SH. Spring A continuation of current literature seminar presented in DBPG 2008A Letter Graded

DBPG 2008C Current Literature Seminar (1 Credit)

Kirkpatrick 1 SH. Fall A continuation of current literature seminar presented in DBPG 2008B Letter Graded

DBPG 2008D Current Literature Seminar (1 Credit)

Kirkpatrick 1 SH. Spring A continuation of current literature seminar presented in DBPG 2008C Letter Graded

DBPG 2008E Current Literature Seminar (1 Credit)

Current Literature Seminar Letter Graded

DBPG 2008E Current Literature Seminar (3 Credits)

Current Literature Seminar Letter Graded

DBPG 2008F Current Literature Seminar (1 Credit)

Current Literature Seminar Letter Graded

DBPG 4001A Oral and Maxillofacial Surgery (1 Credit)

Wong 1 SH. Summer This seminar will cover a variety of topics in oral and maxillofacial surgery. The syllabus is composed of a core curriculum repeated every year from July-October and a rotating curriculum for the remainder of the year. Core subjects include hospital protocol, introduction to the management of maxillofacial trauma, maxillofacial infections fluid and electrolyte balance, renal function, head and neck imaging, peri-operative analgesia, soft and hard tissue healing. The rotating curriculum will cover various topics in a three-year cycle, and will include maxillofacial trauma, head and neck cancer, reconstructive and bone graft surgery, dentoalveolar surgery, pre-prosthetic surgery, facial cosmetic surgery, cleft surgery, TMJ dysfunction, and microneurosurgery. Letter Graded

DBPG 4001B Oral and Maxillofacial Surgery (1 Credit)

Wong 1 SH Fall A continuation of Oral and Maxillofacial Surgery seminar presented in DBPG 4001A Letter Graded

DBPG 4001C Oral and Maxillofacial Surgery (1 Credit)

Wong 1 SH Spring A continuation of Oral and Maxillofacial Surgery seminar presented in DBPG 4001B Letter Graded

DBPG 4002A Orthognathic Seminar (1 Credit)

Julien. 1 SH. FALL The orthognathic conference is jointly presented by faculty from the Departments of Oral and Maxillofacial Surgery and Orthodontics. Weekly presentations will cover the diagnosis, treatment planning and treatment of patients with dentofacial deformities. Topics covered will include orthodontic preparation of patients for orthognathic surgery, surgical procedures, distraction techniques and the management of syndromic patients. Letter Graded

DBPG 4002B Orthognathic Seminar (1 Credit)

Julien. 1 SH. SPRING A continuation of orthognathic conference presented in DBPG 4002A. Letter Graded

DBPG 4002C Orthognathic Seminar (1 Credit)

Julien. 1 SH. FALL A continuation of orthognathic conference presented in DBPG 4002B. Letter Graded

DBPG 4002D Orthognathic Seminar (1 Credit)

Julien. 1 SH. SPRING A continuation of orthognathic conference presented in DBPG 4002C. Letter Graded

DBPG 4003A Clinical Pathologic Conference (1 Credit)

Gilbert. 1 SH. Summer The CPC is a 20 to 30-minute presentation incorporated into the Department of Oral Maxillofacial Surgery's weekly meeting at Methodist. Interesting pathology cases are presented using a clinical approach. Emphasis is placed on the initial presentation, interpreting radiographic and serological results, development of a differential diagnosis, and confirmation of the diagnosis with histology. Treatment measures are also discussed. Letter Graded

DBPG 4003B Clinical Pathologic Conference (1 Credit)

Gilbert 1 SH. Fall A continuation of clinico-pathologic conference (cpc) presented in DBPG 4003A Letter Graded

DBPG 4003C Clinical Pathologic Conference (1 Credit)

Gilbert 1 SH. Spring A continuation of clinico-pathologic conference (cpc) presented in DBPG 4003B Letter Graded

DBPG 5001A Orthodontics Clinic I (3 Credits)

Orthodontics Clinic I Letter Graded

DBPG 5001B Orthodontics Clinic I (2-5 Credits)

Orthodontics Clinic I Letter Graded

DBPG 5001C Orthodontics Clinic I (5 Credits)

Orthodontics Clinic I Letter Graded

DBPG 5002A Orthodontics Clinic II (5 Credits)

Orthodontics Clinic II Letter Graded

DBPG 5002B Orthodontics Clinic II (2-5 Credits)

Orthodontics Clinic II Letter Graded

DBPG 5002C Orthodontics Clinic II (5 Credits)

Orthodontics Clinic II Letter Graded

DBPG 5003 Orthodontic Clinic III (2-5 Credits)

Orthodontic Clinic III Letter Graded

DBPG 5005A Current & Classical Lit Orthodontics I (1 Credit)

Julien. 1 SH. Fall This course reviews current and classical orthodontic literature. Reading assignments are given to each resident. Abstracts of each article are completed by the residents assigned that article. A short question/answer/discussion follow each abstract presentation. Topics in Orthodontics I (DBPG 5010) is a prerequisite for this course. Pass/Fail

DBPG 5005B Current & Classical Lit Orthodontics II (1 Credit)

Julien. 1 SH. Spring This course reviews current and classical orthodontic literature. Reading assignments are given to each resident. Abstracts of each article are completed by the resident assigned that article. A short question/answer/discussion follow each abstract presentation. Current and Classic Literature in Orthodontics I (DBPG 5005A) is a prerequisite for this course. Pass/Fail

DBPG 5005C Current & Classical Lit Orthodontics III (1 Credit)

Julien. 1SH. Fall This course reviews current and classical orthodontic literature. Reading assignments are given to each resident. Abstracts of each article are completed by the resident assigned that article. A short question/answer/discussion follow each abstract presentation. Current and Classic Literature in Orthodontics I (DBPG 5005B) is a prerequisite for this course. Pass/Fail

DBPG 5005D Current & Classical Lit Orthodontics IV (1 Credit)

Julien. 1SH. Fall This course reviews current and classical orthodontic literature. Reading assignments are given to each resident. Abstracts of each article are completed by the resident assigned that article. A short question/answer/discussion follow each abstract presentation. Current and Classic Literature in Orthodontics I (DBPG 5005B) is a prerequisite for this course. Pass/Fail

DBPG 5010 Topics in Orthodontics I (2 Credits)

Julien, Faculty. 2 SH. Summer This advanced course provides the student with the opportunity to learn the scientific knowledge, biomechanical principles, and orthodontic techniques required to diagnose, treatment plan, and correct routine and complex malocclusions of growing and skeletally mature patients. Students are required to make oral case presentations of patients diagnosed and treated in the postgraduate clinic. Class time is a combination of lectures, seminars, laboratories and clinical activities. Topics include orthodontic diagnosis and treatment planning, cephalometrics and radiology, orthodontic and orthodontic appliance design, orthodontic techniques, dentofacial orthopedics, biomechanical principles, interdisciplinary comprehensive care, interdisciplinary care lecture series, clinical photography, and clinical orthodontic treatments/cases management. Letter Graded

DBPG 5011 Topics in Orthodontics II (4 Credits)

Julien, Faculty. 4 SH. Fall See DBPG 5010 for course description. Letter Graded

DBPG 5012 Topics in Orthodontic III (4 Credits)

Julien, Faculty. 4 SH. Spring See DBPG 5011 for course description. Letter Graded

DBPG 5013 Topics in Orthodontics IV (2 Credits)

Julien, Faculty. 2 SH. Summer This advanced course provides the student with advanced knowledge in orthodontic diagnosis, analysis/case management, and treatment. Various approaches to routine orthodontic tooth movement, dentofacial orthopedic techniques, surgical-orthodontic techniques, and techniques for managing cleft palate and craniofacial deformities patients are presented. Instruction in different topic areas consists of a combination of lectures, seminars, laboratories, and clinical activities throughout the year. Students are required to make oral case presentations throughout the year on patients they are treating in the postgraduate or craniofacial deformities clinic. At the completion of the course each resident is required to present a comprehensive oral and written case analysis of some or all their patients to the faculty. Topics in Orthodontics I (DBPG 5012) is a prerequisite for this course. Letter Graded

DBPG 5014 Topics in Orthodontics V (4 Credits)

Julien, Faculty. 4 SH. Fall See DBPG 5013 for course description. Letter Graded

DBPG 5015 Topics in Orthodontics VI (4 Credits)

Julien, Faculty. 4 SH. Spring See DBPG 5013 for course description Letter Graded

DBPG 5016 Craniofacial Growth & Devel I (2 Credits)

Kasper 2 SH. Spring This course will provide the student with a basic understanding of prenatal and postnatal craniofacial growth and development as it relates to orthodontic diagnosis and treatment planning. Topics include molecular aspects of prenatal craniofacial patterning, clinical genetics, syndrome delineation, general concepts of physical growth, postnatal development of the cranial vault, cranial base, midface and mandible, patterning and control mechanisms during postnatal development, correlative growth and facial growth prediction, speech and language development, and relevant aspects of cognitive, emotional, and psychosocial development. Instruction will utilize lectures, seminars/discussions, and student presentations. Topics in Orthodontics I (DBPG 5010) is a prerequisite for this course. Letter Graded

DBPG 5017 Craniofacial Growth & Devel II (2 Credits)

Julien 2 SH. Fall A continuation of Craniofacial Growth and Development Part I Letter Graded

DBPG 5020 Orthodontic Practice Management (1 Credit)

Julien.1SH. Spring This orthodontic practice management course will focus on the business aspects of an orthodontic practice. It will include the AAO Practice Alternative Program, valuation of orthodontic practices, bank-related issues, development of a practice plan, insurance issues including professional liability and disability, and computerization of the orthodontic office. Pass/Fail

DBPG 5352 Biostatistics for Dental Professionals (3 Credits)

Neumann. 3 SH. Summer 3 credit hours (Online) Senior students in the RDH to BSDH program are allowed to enroll in a graduate level course. This online course provides the opportunity to develop introductory-level competencies in the measurement, design, analysis, interpretation and critical evaluation of health information research and evaluation studies. Graduate students will have the opportunity to learn and apply the most important and most frequently used statistical measures and methods, as well as critically evaluate the scientific literature. Some of the topics covered in this course include frequency distributions, measures of central tendency, variance, hypothesis testing, correlation and both parametric and non-parametric inferential methods including t-tests, analysis of variance, chi-square tests of significance, and tests of measures of association. Pass/Fail

DBPG 5520 Applications in Dental Informatics (6 Credits)

Walji. 6 SH Spring/UTSD (classroom instruction preferred, web-based offered on case-by-case basis) This course provides a broad foundation in applying informatics principles to dentistry. Students will select an area of interest related to oral healthcare quality and safety which to apply the knowledge and skills gained during the didactic courses. Students will become active participants in the work of developing dental informatics-based applications and/or research projects. Letter Graded

DBPG 6001A Topics in Pediatric Dentistry I (2 Credits)

Cardenas, Faculty. 2 SH. SUMMER This advanced course provides the student with the knowledge, principles and comprehensive understanding of Pediatric Dentistry required to diagnose, formulate treatment plans and provide quality patient care. Class time is a combination of lectures, seminars, and clinical activities. Students are presented with a series of topics covering areas of Pediatric Dentistry in lecture and discussion format by the faculty. Students are required to make oral case presentations Written and oral exams are given to verify each student has mastered all topic areas which are required for completion of certificate requirements. (This is for DBPG 6001A) Letter Graded

DBPG 6001B Topics in Pediatric Dentistry I (2 Credits)

Chiquet, Faculty. 2 SH. Fall A continuation of advanced topics presented in DBPG 6001A. Letter Graded

DBPG 6001C Topics in Pediatric Dentistry I (2 Credits)

Chiquet, Faculty. 2 SH Spring A continuation of advanced topics presented in DBPG 6001B. Letter Graded

DBPG 6001D Topics in Pediatric Dentistry II (2 Credits)

Chiquet, Faculty. 2 SH. Summer This advanced course continues to provide the student with advanced knowledge and comprehensive understanding of Pediatric Dentistry. Class time is a combination of lectures, seminars, and clinical activities. Students are presented with a series of topics covering areas of Pediatric Dentistry in lecture and discussion format by the faculty. Students are required to make oral case presentations throughout the year. Written and oral exams are given to verify each student has mastered all the topic areas which are required for completion of certificate requirements. Topics in Pediatric Dentistry I (DBPG 6001) is a prerequisite for this course (This is for DBPG 6001D) Letter Graded

DBPG 6001E Topics in Pediatric Dentistry II (2 Credits)

Chiquet, Acharya. 2 SH. FALL A continuation of advanced topics presented in DBPG 6001. Letter Graded

DBPG 6001F Topics in Pediatric Dentistry II (2 Credits)

Chiquet, Faculty. 2 SH. SPRING A continuation of advanced topics presented in DBPG 6001. Letter Graded

DBPG 6005A Pediatric Clinic I (1 Credit)

Hands-on patient care clinical experiences for residents in the first year of the advanced education program in pediatric dentistry. This includes patients from age 0 to 18 and those with special healthcare needs. Experiences include prevention, restorative dentistry, pulp therapy, behavior guidance, hospital dentistry, trauma, pathology, and management of the developing occlusion. Letter Graded

DBPG 6005B Pediatric Clinic I (1 Credit)

Hands-on patient care clinical experiences for residents in the first year of the advanced education program in pediatric dentistry. This includes patients from age 0 to 18 and those with special healthcare needs. Experiences include prevention, restorative dentistry, pulp therapy, behavior guidance, hospital dentistry, trauma, pathology, and management of the developing occlusion. Letter Graded

DBPG 6005C Pediatric Clinic I (3 Credits)

Hands-on patient care clinical experiences for residents in the first year of the advanced education program in pediatric dentistry. This includes patients from age 0 to 18 and those with special healthcare needs. Experiences include prevention, restorative dentistry, pulp therapy, behavior guidance, hospital dentistry, trauma, pathology, and management of the developing occlusion. Letter Graded

DBPG 6006A Pediatric Clinic II (1 Credit)

Hands-on patient care clinical experiences for residents in the second year of the advanced education program in pediatric dentistry. This includes patients from age 0 to 18 and those with special healthcare needs. Experiences include prevention, restorative dentistry, pulp therapy, behavior guidance (including firsthand experience as operator during sedations), hospital dentistry, trauma, pathology, and management of the developing occlusion. Letter Graded

DBPG 6006B Pediatric Clinic II (2 Credits)

Hands-on patient care clinical experiences for residents in the second year of the advanced education program in pediatric dentistry. This includes patients from age 0 to 18 and those with special healthcare needs. Experiences include prevention, restorative dentistry, pulp therapy, behavior guidance (including firsthand experience as operator during sedations), hospital dentistry, trauma, pathology, and management of the developing occlusion. Letter Graded

DBPG 6006C Pediatric Clinic II (2 Credits)

Hands-on patient care clinical experiences for residents in the second year of the advanced education program in pediatric dentistry. This includes patients from age 0 to 18 and those with special healthcare needs. Experiences include prevention, restorative dentistry, pulp therapy, behavior guidance (including firsthand experience as operator during sedations), hospital dentistry, trauma, pathology, and management of the developing occlusion. Letter Graded

DBPG 6007A Cur/Classical Lit Review in Ped Dent I (1 Credit)

Acharya. 1 SH. FALL This course reviews current and classical pediatric dental and related literature. Reading assignments are given to each resident. Abstracts of each article are completed by the residents assigned that article. A short question and answer discussion follow each abstract presentation. Topics in Pediatric Dentistry I (DBPG 6001) is a prerequisite for this course. Letter Graded

DBPG 6007B Cur/Classical Lit Review in Ped Dent I (1 Credit)

Acharya. 1 SH. SPRING This course reviews current and classical pediatric dental and related literature. Reading assignments are given to each resident. Abstracts of each article are completed by the residents assigned that article. A short question and answer discussion follow each abstract presentation. Current & Classical Literature Review in Pediatric Dentistry I (DBPG 6007) is a prerequisite. Letter Graded

DBPG 6007C Current and Classical Literature Review in Pediatric Dentistry II (1 Credit)

Acharya. 1 SH. SUMMER This course reviews current and classical pediatric dental and related literature. Reading assignments are given to each resident. Abstracts of each article are completed by the residents assigned that article. A short question and answer discussion follow each abstract presentation Current & Classical Literature Review in Pediatric Dentistry I (DBPG 6007) is a prerequisite for this course. Letter Graded

DBPG 6007D Cur/Classical Lit Review in Ped Dent II (1 Credit)

Acharya. 1 SH. FALL This course reviews current and classical pediatric dental and related literature. Reading assignments are given to each resident. Abstracts of each article are completed by the residents assigned that article. A short question and answer discussion follow each abstract presentation. Current & Classical Literature Review in Pediatric Dentistry I (DBPG 6007) is a prerequisite for this course. Letter Graded

DBPG 6007E Cur/Classical Lit Review in Ped Dent II (1 Credit)

Acharya. 1 SH. SPRING This course reviews current and classical pediatric dental and related literature. Reading assignments are given to each resident. Abstracts of each article are completed by the residents assigned that article. A short question and answer discussion follow each abstract presentation. Current & Classical Literature Review in Pediatric Dentistry I (DBPG 6007) is a prerequisite for this course. Letter Graded

DBPG 6016 Pediatric Seminar In Craniofacial Development I (2 Credits)

Pediatric Seminar In Craniofacial Development I Letter Graded

DBPG 6017 Pediatric Seminar In Craniofacial Development II (2 Credits)

Chiquet. 2 SH. FALL This course involves the review of etiology, manifestations and treatment considerations of syndromes affecting patients commonly treated by Pediatric Dentists. Through this seminar course, participants will discuss these syndromes based on (1) presentation of developmental anomaly and systems involved, if applicable, (2) treatment modifications, (3) medical management of the patient, and (4) pertinent research on disease etiology. Additionally, speech and hearing specialists who work with affected children will discuss various therapies available to treat these patients. Letter Graded

DBPG 7001A Periodontics Clinic I (1 Credit)

Periodontics Clinic I Letter Graded

DBPG 7001B Periodontics Clinic I (3 Credits)

Periodontics Clinic I Letter Graded

DBPG 7001C Periodontics Clinic I (3 Credits)

Periodontics Clinic I Letter Graded

DBPG 7002A Periodontics Clinic II (4 Credits)

Periodontics Clinic II Letter Graded

DBPG 7002A Periodontics Clinic III (4 Credits)

Periodontics Clinic III Letter Graded

DBPG 7002B Periodontics Clinic II (5 Credits)

Periodontics Clinic II Letter Graded

DBPG 7002C Periodontics Clinic II (5 Credits)

Periodontics Clinic II Letter Graded

DBPG 7003A Periodontics Clinic III (3 Credits)

Periodontics Clinic III Letter Graded

DBPG 7003B Periodontics Clinic III (5 Credits)

Periodontics Clinic III Letter Graded

DBPG 7003C Periodontics Clinic III (5 Credits)

Periodontics Clinic III Letter Graded

DBPG 7008 Dental Implants Lecture Series (2 Credits)

Eswaran. 2 SH. SPRING This course introduces first-year periodontology students to the broad discipline of implant dentistry. Implant Seminars I and II are offered to second-year students in the spring and fall semesters, respectively. These seminars will provide additional didactic exposure. The course consists of a series of lectures given by faculty members and practitioners involved with dental implants. The lectures will include diagnosis and treatment planning, surgical and prosthetic considerations, and implant maintenance. Additionally, as part of the course, the students will be required to treatment plan a case incorporating dental implants. Implants concepts based on scientific literature, rather than concepts based on non-validated dogmas, will be emphasized through the course. Letter Graded

DBPG 7009 Topical Seminar in Perio/2H (2 Credits)

Ayilavarapu & Faculty 2 SH. Fall This series of seminars, which extend sequentially through three semesters, concentrate in a thorough, in-depth review, discussion, and evaluation of the periodontal literature related to different aspects of therapy. All non-surgical and surgical approaches, as well as different aspects of the occlusion are reviewed. Weekly papers are required on specific assigned topic. An oral presentation of the subject, by one of the graduate students, will be followed by a discussion with participation of all the students, under the direction of the faculty member conducting the seminar. Letter Graded

DBPG 7009A Topical Seminar in Periodontics (2 Credits)

Ayilavarapu & Faculty 2 SH. Fall This series of seminars, which extend sequentially through three semesters, concentrate in a thorough, in-depth review, discussion, and evaluation of the periodontal literature related to different aspects of therapy. All non-surgical and surgical approaches, as well as different aspects of the occlusion are reviewed. Weekly papers are required on specific assigned topic. An oral presentation of the subject, by one of the graduate students, will be followed by a discussion with participation of all the students, under the direction of the faculty member conducting the seminar. Letter Graded

DBPG 7009B Topical Seminar in Periodontics (2 Credits)

Ayilavarapu & Faculty 2 SH. Spring A continuation of topics in periodontics present in DBPG 7009A. Letter Graded

DBPG 7009C Topical Seminar in Periodontics (2 Credits)

Ayilavarapu & Faculty 2 SH. Fall A continuation of topics in periodontics present in DBPG 7009B. Letter Graded

DBPG 7009D Topical Seminar in Periodontics (2 Credits)

Ayilavarapu & Faculty 2 SH. Spring A continuation of topics in periodontics present in DBPG 7009C. Letter Graded

DBPG 7009E Topical Seminar in Periodontics (2 Credits)

Ayilavarapu & Faculty 2 SH. Fall A continuation of topics in periodontics present in DBPG 7009D. Letter Graded

DBPG 8001A Graduate Prosthodontic Clinic I (4 Credits)

Graduate Prosthodontic Clinic I Letter Graded

DBPG 8001B Graduate Prosthodontic Clinic I (2 Credits)

Graduate Prosthodontic Clinic I Letter Graded

DBPG 8002A Graduate Pros Clinic II (3 Credits)

Graduate Pros Clinic II Letter Graded

DBPG 8002B Graduate Prosthodontic Clinic II (4 Credits)

Graduate Prosthodontic Clinic II Letter Graded

DBPG 8002C Graduate Prosthodontic Clinic II (6 Credits)

Graduate Prosthodontic Clinic II Letter Graded

DBPG 8005A Graduate Prosthodontic Clinic III (4 Credits)

Graduate Prosthodontic Clinic III Letter Graded

DBPG 8005B Graduate Prosthodontic Clinic III (7 Credits)

Graduate Prosthodontic Clinic III Letter Graded

DBPG 8005C Graduate Prosthodontic Clinic III (6 Credits)

Graduate Prosthodontic Clinic III Letter Graded

DBPG 8006A Periodontic/Prosthodontic Conference (1 Credit)

Gonzalez, Aylavarapu and Kirkpatrick 1 SH. Spring This course requires a periodontic student and a prosthodontic resident to jointly prepare a patient's case for diagnosis and treatment planning conference. The students will be scheduled to present this patient case to their peer group and mentors. The mentors in attendance will evaluate and grade the students' presentation and audience participation. Objectives are learning the process of determining a differential dental diagnosis, developing optional treatment plans, learning sequential treatment planning, evaluation of the dental fees to the patient, learning coordinated interdisciplinary care, and preparing and delivering case presentations.

Letter Graded

DBPG 8006B Periodontic/Prosthodontic Conference (1 Credit)

Gonzalez, Aylavarapu and Kirkpatrick 1 SH. Spring This course requires a periodontic student and a prosthodontic resident to jointly prepare a patient's case for diagnosis and treatment planning conference. The students will be scheduled to present this patient case to their peer group and mentors. The mentors in attendance will evaluate and grade the students' presentation and audience participation. Objectives are learning the process of determining a differential dental diagnosis, developing optional treatment plans, learning sequential treatment planning, evaluation of the dental fees to the patient, learning coordinated interdisciplinary care, and preparing and delivering case presentations.

Letter Graded

DBPG 8006C Periodontic/Prosthodontic Conference (1 Credit)

Gonzalez, and Aylavarapu 1 SH Spring This course requires a periodontic student and a prosthodontic resident to jointly prepare a patient's case for diagnosis and treatment planning conference. The students will be scheduled to present this patient case to their peer group and mentors. The mentors in attendance will evaluate and grade the students' presentation and audience participation. Objectives are learning the process of determining a differential dental diagnosis, developing optional treatment plans, learning sequential treatment planning, evaluation of the dental fees to the patient, learning coordinated interdisciplinary care, and preparing and delivering case presentations.

Letter Graded

DBPG 8010 Graduate Prosthodontics I (2 Credits)

Gonzalez. 2SH Summer This is a preclinical course for first-year advanced prosthodontic students. It includes all of the clinical and laboratory phases of complete denture therapy and the first half of a two-semester course in occlusion. Letter Graded

DBPG 9001 Pathology: Microscopy and Clinics IA (3 Credits)

Vigneswaran. 3 SH. SUMMER In this course, students will be responsible for studying daily slide cases, reviewing special cases, and treating clinic patients. Students will learn to build diagnostic skills, understand clinicopathologic correlation, and understand how to diagnose and properly manage clinical oral pathology patients. Pass/Fail

DBPG 9002 Pathology: Microscopy and Clinics IB (3 Credits)

Vigneswaran. 3 SH. FALL In this course, students will be responsible for studying daily slide cases, reviewing special cases, and treating clinic patients. Students will learn to build diagnostic skills, understand clinicopathologic correlation, and understand how to diagnose and properly manage clinical oral pathology patients. Pass/Fail

DBPG 9003 Pathology: Microscopy and Clinics IC (3 Credits)

Vigneswaran. 3 SH. SPRING In this course, students will be responsible for studying daily slide cases, reviewing special cases, and treating clinic patients. Students will learn to build diagnostic skills, understand clinicopathologic correlation, and understand how to diagnose and properly manage clinical oral pathology patients. Pass/Fail

DBPG 9004 Pathology: Microscopy and Clinics IIA (3 Credits)

Vigneswaran. 3 SH. SPRING In this course, students will be responsible for studying daily slide cases, reviewing special cases, and treating clinic patients. Students will learn to build diagnostic skills, understand clinicopathologic correlation, and understand how to diagnose and properly manage clinical oral pathology patients. Pass/Fail

DBPG 9005 Pathology: Microscopy and Clinics IIB (6 Credits)

Vigneswaran. 6 SH. FALL In this course, students will be responsible for studying daily slide cases, reviewing special cases, and treating clinic patients. Students will learn to build diagnostic skills, understand clinicopathologic correlation, and understand how to diagnose and properly manage clinical oral pathology patients. Pass/Fail

DBPG 9006 Pathology: Microscopy and Clinics IIIA (6 Credits)

Vigneswaran. 6 SH. FALL In this course, students will be responsible for studying daily slide cases, reviewing special cases, and treating clinic patients. Students will learn to build diagnostic skills, understand clinicopathologic correlation, and understand how to diagnose and properly manage clinical oral pathology patients. Pass/Fail

DBPG 9007 Pathology: Microscopy and Clinics IIIB (7 Credits)

Vigneswaran. 7 SH. SPRING In this course, students will be responsible for studying daily slide cases, reviewing special cases, and treating clinic patients. Students will learn to build diagnostic skills, understand clinicopathologic correlation, and understand how to diagnose and properly manage clinical oral pathology patients. Pass/Fail

DBPG 9008 Topics in Oral Pathology IA (1 Credit)

Vigneswaran. 1 SH. FALL This course reviews current and classical literature in the field of Oral and Maxillofacial Pathology. Reading assignments and/or topics are selected by each resident at the approval of the Course Director. Residents will discuss the reading assignments/topics with the Course Director and relevant faculty once per month. Pass/Fail

DBPG 9009 Topics in Oral Pathology IB (1 Credit)

Vigneswaran. 1 SH. SPRING This course reviews current and classical literature in the field of Oral and Maxillofacial Pathology. Reading assignments and/or topics are selected by each resident at the approval of the Course Director. Residents will discuss the reading assignments/topics with the Course Director and relevant faculty once per month. Pass/Fail

DBPG 9010 Topics in Oral Pathology IIA (1 Credit)

Vigneswaran. 1 SH. SUMMER This course reviews current and classical literature in the field of Oral and Maxillofacial Pathology. Reading assignments and/or topics are selected by each resident at the approval of the Course Director. Residents will discuss the reading assignments/topics with the Course Director and relevant faculty once per month.

Pass/Fail

DBPG 9011 Topics in Oral Pathology IIB (1 Credit)

Vigneswaran. 1 SH. FALL This course reviews current and classical literature in the field of Oral and Maxillofacial Pathology. Reading assignments and/or topics are selected by each resident at the approval of the Course Director. Residents will discuss the reading assignments/topics with the Course Director and relevant faculty once per month.

Pass/Fail

DBPG 9012 Topics in Oral Pathology IIIA (1 Credit)

Vigneswaran. 1 SH. FALL This course reviews current and classical literature in the field of Oral and Maxillofacial Pathology. Reading assignments and/or topics are selected by each resident at the approval of the Course Director. Residents will discuss the reading assignments/topics with the Course Director and relevant faculty once per month.

Letter Graded

DBPG 9013 Topics in Oral Pathology IIIB (1 Credit)

Vigneswaran. 1 SH. SPRING This course reviews current and classical literature in the field of Oral and Maxillofacial Pathology. Reading assignments and/or topics are selected by each resident at the approval of the Course Director. Residents will discuss the reading assignments/topics with the Course Director and relevant faculty once per month.

Pass/Fail

DBPG 9014 Oral Pathology Research A (1 Credit)

Vigneswaran. 1 SH. FALL In this course, residents will have allocated time to start or continue a research project. Residents may utilize research facilities including the Office of Research which provides support, liaison, and guidance for research efforts. If necessary, residents may collaborate with or utilize the Center for Clinical and Translational Research. A Statistician and Clinical Research Coordinator will also be available.

Pass/Fail

DBPG 9015 Oral Pathology Research B (1 Credit)

Vigneswaran. 1 SH. SPRING In this course, residents will have allocated time to start or continue a research project. Residents may utilize research facilities including the Office of Research which provides support, liaison, and guidance for research efforts. If necessary, residents may collaborate with or utilize the Center for Clinical and Translational Research. A Statistician and Clinical Research Coordinator will also be available. Pass/Fail

DBPG 9016 Anatomic Pathology Rotation A (9 Credits)

Vigneswaran. 9 SH. SPRING In this course, residents will attend rotation at McGovern Medical School at UTHealth and The University of Texas MD Anderson Cancer Center; both are part of The University of Texas System. Residents will rotate on a four to eight-week schedule. Letter Graded

DBPG 9017 Anatomic Pathology Rotation B (6 Credits)

Vigneswaran. 6 SH. SUMMER In this course, residents will attend rotation at McGovern Medical School at UTHealth and The University of Texas MD Anderson Cancer Center; both are part of The University of Texas System. Residents will rotate on a four to eight-week schedule. Pass/Fail