

DDS FALL (DENF)

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DENF 1504 Neurosciences (2 Credits)

This course covers the aspects of the structure and function of the Central Nervous System (CNS) essential for understanding neurologically-related clinical problems, including cranial nerve disorders, neurological syndromes, mechanisms of pain production and perception and the neurophysiology of mastication and occlusion. At the conclusion of this course, the student should be prepared for detailed study of the medications affecting the nervous system, and for consulting with physicians with respect to patients suffering from neurological disease. 0-100 (DENT) Begin 2001D

DENF 1510 Biomedical Science Core (5 Credits)

The course is designed to present foundational knowledge starting with biochemical building blocks and proceeding to the cell and tissue levels. The course will integrate biochemistry, general histology, anatomy, and physiology. 0-100 (DENT) Begin 2001D

DENF 1511 Oral Biology I (3.5 Credits)

The course is designed to present a roadmap of the oral cavity, looking at a broad integrated view of the oral anatomy, oral histology, saliva, clinical and oral immunology, embryology, and oral microbiology. 0-100 (DENT) Begin 2001D

DENF 1543 Clinical Applications I (2.5 Credits)

The course is designed to be a small group learning opportunity for student to correlate topics presented in the Biomedical Science Core and Oral Biology I course as well as other dental courses, through case-based discussions and projects. 0-100 (DENT) Begin 2001D

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DENF 1601 Dental Anatomy I (2 Credits)

Knowledge of dental anatomy and occlusion is fundamental in the study and practice of all the disciplines of dentistry. It is essential in diagnosis, treatment planning, and treatment. Students are required to learn the anatomical and morphological characteristics of the teeth and their supporting structures, inter-arch and intra-arch relationships and eruption. Combined with the complementary lab courses, students will be able to fabricate dental restorations that meet anatomical, morphological, and functional requirements. 0-100 (DENT) Begin 2001D

DENF 1621 Ethics in Dentistry (0.5 Credits)

This course helps students understand the place of ethics in professional life, to recognize when an ethical problem exists in the performance of academic work, clinical treatment, or research, and to have the capability of analyzing and addressing the problem. This course seeks to emphasize that ethics is a working discipline to help a dentist understand how to make critical decisions, and how to take appropriate and logical actions in dealing with patients, colleagues, and society. 0-100 (DENT) Begin 2001D

DENF 1651 Foundational Skills for Clinic I (1 Credit)

The goal of this course is to create an awareness of HIPAA and its impact on students' clinical activities as they relate to patient privacy and confidentiality. This course also introduces students to the principles of electronic health records; presents infection control concepts appropriate to the clinical setting; and introduces the principles of dental chairside assisting and four-handed dentistry. 0-100 (DENT) Begin 2001D

DENF 1934 Introduction to Population Health (1.5 Credits)

The goal of this course is to emphasize health promotion in different populations at the community and individual levels. This course will address prevention, intervention, educational strategies; participation with dental and other healthcare professionals in patient management and health promotion, and contribute to the improvement of oral health beyond those served in traditional practice settings. Students will be introduced to basic concepts of dental epidemiology with selected references and articles with a focus on vulnerable and underserved populations, those with health disparities, and disadvantaged populations in the US and the state of Texas. Students will have the opportunity to plan, develop and implement oral health promotion and prevention programs for diverse populations. 0-100 (DENT) Begin 2001D

DENF 1991 Introduction to Dental Informatics (0.5 Credits)

This course offers an introduction to dental informatics and the technological environment of the School of Dentistry, the information resources to which students have access, and the fundamental skills necessary to navigate within this environment. Dental informatics is the study of how health related information is collected, stored, communicated and presented to enhance patient care and discovery. The course includes an emphasis on understanding the critical role of data and information in dentistry, and reviews the concepts of clinical decision-making, critical thinking skills, clinical effectiveness, evidence-based dentistry, and the ability to retrieve and critically evaluate information resources. Using a combination of lectures, demonstrations, and an online approach (Canvas), students will complete course readings, tutorials, and exercises. 0-100 (DENT) Begin 2001D

DENF 2564 Dental Therapeutics (2 Credits)

The course is designed to provide knowledge of drugs commonly used in the treatment of dental disease. Students will also study drugs primarily used in medicine, which fit in the same categories as dentally used drug, whenever it is appropriate. Topics include antibiotics, autonomic drugs, pain and anxiety control drugs, inflammation and anti-inflammatory drugs, anticaries and antiplaque agents. Principles and application of prescription writing are integrated throughout the course. 0-100 (DENT) Begin 2001D

DENF 2703 Oral & Maxillofacial Radiology II (1 Credit)

This course introduces students to the advanced aspects of oral and maxillofacial radiology. The radiographic examination plays an integral role in the diagnostic process in dentistry. The practitioner uses radiographic images to diagnose those structures which cannot be seen during the clinical evaluation. The dentist must therefore possess a sound knowledge of radiographic principles and be highly proficient in certain extraoral techniques to complement their overall diagnostic skills. 0-100 (DENT) Begin 2001D

DENF 2705 Pathobiology (6 Credits)

The course is designed to provide foundational knowledge of the etiology, pathogenesis, morphologic changes, and functional consequences of pathologic processes. The course will encompass the general principles and mechanisms of diseases, as well as the pathologic mechanisms of the various organ systems. 0-100 (DENT) Begin 2001D

DENF 2722 Perio II:Nonsurgical Periodontal Therapy (1 Credit)

This course in periodontics, is designed to introduce students to the basic principles of periodontal therapy. The core of the course will emphasize the initial phase of periodontal treatment and will expose students to the basic techniques used to eliminate the etiologic factors involved in the development of inflammatory periodontal diseases. Additionally, the student will be introduced to occlusion as it relates to the nonsurgical phase of periodontal therapy. Clinical decision criteria will be presented in order to familiarize students with the concepts of maintenance of periodontal health. The scaling and root planning laboratory exercise will emphasize the skills that are essential to scale and root plane periodontally affected teeth. 0-100 (DENT) Begin 2001D

DENF 2962 Pediatric Dentistry I (1 Credit)

This course introduces the learners to the fundamental knowledge areas and considerations related to provision of dental treatment to pediatric patients. Emphasis will be placed on dental disease, etiology and prevention, recognition and management of disorders common to childhood and the non-pharmacological behavior management. This course will introduce growth and development of the dental arches. A review of the cariogenic theories and caries prevalence as it relates to the developing child will be discussed. The course will provide indications and contraindications for fluoride supplementation and sealants, along with necessary information regarding oral hygiene instructions and nutrition requirements of these patients. Common periodontal problems in children will also be presented. 0-100 (DENT) Begin 2001D

DENF 3541 Emergency Procedures I (1 Credit)

This course brings together the individual medical emergency procedures presented in courses throughout the dental curriculum. It serves as a method for understanding their use in the clinical situation and to develop a greater sense of confidence in their application. 0-100 (DENT) Begin 2001D

DENF 3672 Biomaterials II (1 Credit)

This course will acquaint the student with the properties of bleaching agents, various types of dental adhesives, laboratory composites, dental cements, and color principles in dentistry. Additionally, the course will provide an opportunity for clinical problem-solving relating to the properties and materials introduced. Special emphasis will be placed on the biomaterials currently used in a dental practice. The information presented in this course will help provide the student with both a sound basis of knowledge and problem-solving skills that will aid in making appropriate selections of materials for each patient's unique needs. 0-100 (DENT) Begin 2001D

DENF 3710 Endo II:Biological Applications in Endo (0.5 Credits)

This course helps students acquire a more in-depth understanding of pulpal and periradicular pathophysiology, of techniques for diagnosing pulpal and periradicular disease, and of techniques for biomechanical canal instrumentation and obturation. Also included is an in-depth discussion of the management of endodontic emergencies. 0-100 (DENT) Begin 2001D

DENF 3721 Perio III:Surgical Perio Therapy (0.5 Credits)

This course prepares students to manage patients in their practices who have been diagnosed as having periodontal disease. Students will have the opportunity to learn to select patients they are capable of treating and identify those with more complex cases who should be referred to a periodontist. In addition, students should apply the rationale for periodontal surgical procedures, compare and evaluate basic periodontal surgical techniques, and perform simple flap procedures in the laboratory, under the supervision of a Periodontics faculty member. 0-100 (DENT) Begin 2001D

DENF 3807 Advanced Oral & Maxillofacial Surgery (0.5 Credits)

This course prepares students to recognize advanced oral and maxillofacial surgery problems that in most cases will require a referral to an oral and maxillofacial surgeon. These procedures include biopsy of both soft and hard tissue lesions, correction of dentofacial deformities, surgical treatment of cleft lip and palate and treatment of salivary gland diseases. 0-100 (DENT) Begin 2001D

DENF 3808 Essentials in Medicine II (2 Credits)

This course is an in-depth examination and continuation of the medical principles presented in Essentials in Medicine I. The course will prepare the student to quantify pertinent positive findings obtained from the subjective medical history and objective focused physical examination. The course incorporates and distinguishes the clinical relevance of pertinent applied pharmacotherapeutics in patient management. 0-100 (DENT) Begin 2001D

DENF 3904 Introduction to Orofacial Pain (1 Credit)

The goal of this course is to equip third-year dental students with a comprehensive understanding of orofacial pain and temporomandibular disorders (TMD) by delving into the etiologic factors, social, structural, psychological, physiological, and pathological contributors. Students will learn to recognize and differentiate clinical signs and symptoms, explain thorough head and neck examinations, and gather comprehensive medical, dental, and psychosocial histories. Additionally, the course focuses on developing skills in differential diagnosis, discussing imaging indications, understanding neurophysiologic mechanisms, and outlining various treatment modalities for orofacial pain disorders and TMD. 0-100 (DENT) Begin 2001D

DENF 3961 Pediatric Dentistry III (1 Credit)

This course prepares students to provide dental care to their pediatric patients. Students learn the reasons for oral health examinations, and the methods by which such exams are conducted. Students also become familiar with important principles and guidelines for rendering treatment to the pediatric patient with special needs. Additionally, students should be able to render treatment to teeth that have sustained trauma (both primary and permanent) and oral soft tissues that have been burned. Various oral habits and basic principles of minor tooth movement are presented. Small-group sessions are used to help students integrate their dental knowledge to plan comprehensive treatment for the pediatric patient. 0-100 (DENT) Begin 2001D

DENF 3971 Orthodontics (1 Credit)

This course provides students an introduction and background in elements of orthodontics with which the general practitioner should be familiar in order to treat limited orthodontic cases. The course begins with a comprehensive introduction to orthodontic diagnosis and treatment planning. Students then learn orthodontic triage: separating patients who can be treated by a general practitioner from those who will require referral to a dental specialist. The biologic and mechanical aspects of orthodontic tooth movement follow and are presented in detail. Orthodontic problems of a dental nature and those requiring growth modifications are covered. The three major stages of comprehensive orthodontic treatment are presented. Simple orthodontic procedures that the general practitioner can perform to control disease and restore function as part of their restorative procedures are reviewed. 0-100 (DENT) Begin 2001D

DENF 4623 Practice Management IV (0.5 Credits)

The goal of this course is to reinforce the skills necessary for practice management, including team leadership, as part of a successful, general dentistry practice. This course introduces the how-to of reviewing associate contracts and is a continuation of the previous three, Practice Management courses. 0-100 (DENT) Begin 2001D