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**DDDS - DOCTOR DENTAL SURGERY**

**DDDS 6543 Dental Anatomy-C**
Drawing and carving teeth to scale; restoring tooth form in wax to normal relation with adjacent and opposing teeth; identification of extracted natural teeth.

**DDDS 6560 General Histology**
Microscopic and ultrastructural characteristics of cells, tissues and organ systems of the human; a brief introduction to function; light- and electron-microscopic study of human tissues.

**DDDS 6600 General Histology**
Microscopic and ultrastructural characteristics of cells, tissues and organ systems of the human; a brief introduction to function; light- and electron-microscopic study of human tissues.

**DDDS 6640 Gross Anatomy**
Gross morphology of the human with special emphasis on the head and neck; dissection of the cadaver.

**DDDS 6660 Growth and Development**
Prenatal growth of craniofacial structures; postnatal physical growth and maturation; development of the dentition and malocclusion; postnatal craniofacial development.

**DDDS 6690 Human Behavior in Dentistry**
Application of principles of communication and motivation relevant to doctor-patient relations, patient compliance, stress management, and management of dental anxiety and fear.

**DDDS 6720 Introductory Ethics and Academic Integrity**
Contemporary introduction to ethics in the dental profession and academic integrity in dental education.

**DDDS 6740 Immunology**
A lecture course to teach the basic principles of immunology as it relates to the practice of dentistry and the process of infectious disease.

**DDDS 6770 Neuroscience**
Gross structural features and functions of the human nervous system; emphasis on physiology of nerve membrane and receptors, neural pathways for the major sensory and motor systems; the cranial nerves; and the autonomics of the head and neck.

**DDDS 6800 Occlusion**
Temporomandibular joint occlusal function; intercuspal relationships; mandibular movements; record transfer; use of a semi-adjustable articulator.

**DDDS 6804 Occlusion - C**
Preclinical laboratory to accompany course 6800.
DDDS 6820 Oral Histology
Credits 2. 1 Lecture Hour. 1 Lab Hour.
Normal development and structure of tissues associated with the tooth proper, its adnexa and the oral cavity; light-, scanning electron-, and transmission electron-microscopy; emphasis on clinical aspects of oral histology.

DDDS 6840 Operative Dentistry
Credit 1. 1 Lecture Hour.
Introduction to the treatment of diseased and injured teeth; emphasis on principles of cavity preparation; principles and manipulation of restorative materials.

DDDS 6844 Operative Dentistry - C
Credits 2. 2 Lab Hours.
Preclinical laboratory to accompany course 6840.

DDDS 6850 Cultural Competence in Dental Health Care and Education
Credits 0.5. 0.5 Lecture Hours.
Explores cultural differences and similarities while increasing awareness of values and beliefs that impact health care and communication. Must be taken on a satisfactory/unsatisfactory basis.

DDDS 6860 Introduction to Evidence Based Dentistry and Clinical Research
Credits 2.5. 2.5 Lecture Hours.
Lecture and group sessions to introduce the functional principles of how to formulate a focused research question and how to search the literature to identify and evaluate evidence to answer that question.

DDDS 6870 Physiology
Credits 5.5. 2.8 Lecture Hours. 2.8 Lab Hours.
Theory and principles of human body function; detailed study of the cell membrane, skeletal muscle, blood, heart, lungs, gastrointestinal system, kidney and endocrine glands; demonstration of many principles in laboratory exercises.

DDDS 6880 General Pathology
Credits 4. 2 Lecture Hours. 2 Lab Hours.
This lecture course aimed at presenting the basic mechanisms on the organ systems of the body. It is also intended to provide an understanding of the more common diseases and, where appropriate, how they might impact the management of the dental patient.

DDDS 7010 Dental Auxiliary Utilization
Credits 0.5. 0.5 Lecture Hours.
Utilization of the chair-side dental assistant; self-study module.

DDDS 7020 Endodontics
Credit 1. 1 Lecture Hour.
Introduction to endodontics; technical and biological bases for nonsurgical root canal therapy; access, cleaning, shaping and filling of root canals.

DDDS 7024 Endodontics - C
Credit 1. 1 Lab Hour.
Preclinical laboratory: discussion and demonstrations of techniques for nonsurgical root canal therapy including access opening, cleaning, shaping and filling of root canals in models and extracted teeth.

DDDS 7040 Fixed Prosthodontics
Credits 3. 3 Lecture Hours.
Instruction in the design and fabrication of fixed partial dentures and crown restorations, implants, preparations, fabrication techniques and related dental materials.

DDDS 7044 Fixed Prosthodontics - C
Credits 4. 4 Lab Hours.
Laboratory to accompany course DDDS 7040.

DDDS 7080 Introduction to Clinical Practice II
Credit 1. 0.5 Lecture Hours. 0.5 Lab Hours.
Introduction to Clinical Practice II. Introduction, orientation to the various clinical disciplines; concepts and implementation of quality assurance issues in dental practice, aseptic techniques, patient communications, diversity ethics, instrument management, initial introductory endodontics information, dental patient record management, rotations patient assignments, and culturally sensitive patient interviewing information.

DDDS 7084 Introduction to Clinical Practice II-C
Credit 1.5. 1.5 Other Hour.
Clinical applications to accompany course 7080; including rotations through various discipline clinics, several simulations of clinical operative procedures using computer documentation, small group sessions where students participate in simulated culturally sensitive patient interviewing exercises.

DDDS 7100 Operative Dentistry
Credit 1. 1 Lecture Hour.
Treatment of diseased and injured teeth; emphasis on principles of cavity preparation; principles and manipulation of restorative materials.

DDDS 7104 Operative Dentistry - C
Credits 2. 2 Lab Hours.
Preclinical laboratory to accompany course 7100.

DDDS 7120 Basic Principles and Techniques of Dental-Implant Surgery
Credit 1. 0.5 Lecture Hours. 0.5 Lab Hours.
Introduction to the basic principles and techniques of dental-implant surgery; presurgical patient evaluation, risk management and assessment; surgical instrument identification and vocabulary, principles of soft tissue surgery, sterile techniques and infection control; preprosthetic surgical techniques.

DDDS 7140 Preclinical Diagnostic Sciences II
Credit 1. 1 Lecture Hour.
Introduction to clinical diagnostic methods and its vocabulary that contribute to the assessment of the dental patient. Techniques of gathering diagnostic information from the patient history, the extraoral physical examination and clinical laboratory studies.

DDDS 7160 Oral Pathology
Credits 2. 2 Lecture Hours.
Etiology, pathogenesis and clinical aspect of oral disease and oral manifestations of systemic disease.

DDDS 7170 Oral Radiology
Credits 2. 2 Lecture Hours.
The basic concepts of radiation physics, the generation of X-rays; operation of the X-ray unit; the control factors involved in the production of radiographic images, intraoral, extraoral and specialized radiographic acquisition techniques; and the radiographic interpretation of normal anatomy, dental caries, periodontal disease and dental anomalies.

DDDS 7173 Oral Radiography - C
Credits 0.5. 0.5 Other Hours.
Supervised practical experience in the application of the principles of radiographic image formation.
DDD 7190 Preclinical Diagnostic Sciences II  
Credit 1. 1 Other Hour.  
Techniques and vocabulary that contribute to the diagnosis of dental diseases, abnormalities of teeth and non-dental lesions of the orofacial region. Physical and radiographic examination of oral/perioral tissues and the application of findings to diagnostic decisions are emphasized. Also, includes clinical documentation and dental treatment planning.

DDD 7210 Orthodontics  
Credit 1. 1 Lecture Hour.  
Introductory information regarding evaluation of tooth position problems, treatment planning for minor orthodontic problems, including primary, mixed and adult dentitions. Diagnosis will be emphasized.

DDD 7214 Orthodontics - C  
Credit 1. 1 Lab Hour.  
Basic techniques of wire and acrylic manipulation, including soldering, welding, band fabrication and bonding in a laboratory setting.

DDD 7230 Local Anesthesia / Nitrous Oxide-Oxygen Conscious Sedation  
Credit 1. 0.5 Lecture Hours. 0.5 Other Hours.  
Regional pain control; nitrous oxide-oxygen sedation and enteral conscious sedation, preanesthetic evaluation of patients, techniques of administration, pharmacology, side effects, complications and risk, and management of complications.

DDD 7250 Pediatric Dentistry  
Credits 2. 1 Lecture Hour. 1 Lab Hour.  
An introductory course to pediatric dentistry presented in small-group seminars, preclinical laboratory basic operative skills, diagnosis and treatment planning, behavioral management strategies, an introductory patient experience activity, and observation of clinical treatment in preparation for the pediatric clinical courses.

DDD 7270 Periodontics  
Credits 2. 2 Lecture Hours.  
Classification of periodontal disease, systemic and dysfunctional factors associated with periodontal disease, diagnosis and management of periodontal diseases, emphasis on specific therapeutic techniques.

DDD 7274 Periodontics - C  
Credit 1. 0.5 Lab Hours. 0.5 Other Hours.  
Periodontics – C. Clinical applications of course DDDS 7270.

DDD 7290 Dental Pharmacology  
Credits 2. 2 Lecture Hours.  
Terms and principles essential to understanding the rational use of drugs in dental practice; pharmacology of drugs used in dentistry; prescription writing techniques; evaluation of patient drug histories.

DDD 7330 Patient Management  
Credits 0.5. 0.5 Lecture Hours.  
Scientific basis for oral disease assessment and strategies for prevention and/or management of oral diseases.

DDD 7350 Removable Prosthodontics  
Credits 2. 2 Lecture Hours.  
Concepts and techniques for fabricating complete and partial dentures. Complete dentures fabricated on a manikin, theory of various denture occlusions; RPD design and construction, immediate dentures, restoration of implants, mouth preparation and laboratory communication.

DDD 7353 Removable Prosthodontics - C  
Credits 4. 4 Lab Hours.  
Preclinical laboratory to accompany course DDDS 7350.

DDD 7400 Application of Evidence Based Dentistry I  
Credits 0.5. 0.5 Other Hours.  
Small group sessions review clinically relevant articles using the foundational information from the first year evidence-based dentistry course.

DDD 7410 National Dental Board Part I Review  
Credit 1. 1 Lecture Hour.  
Presents discipline-based and case-based review material on the four sections of the NBDE including experience in taking practice examinations.

DDD 7420 Microbiology  
Credits 3. 3 Lecture Hours.  
Microorganism metabolism, genetics, bacteriology, virology, mycology, chemotherapy, sterilization, disinfection, and the microorganisms of oral diseases.

DDD 8000 Summer Clinic - C  
Credits 0. 0 Other Hours.  
All phases of clinic practice; mandatory attendance for third-year students.

DDD 8004 Clinical Preventive Dentistry - C  
Credits 0.5. 0.5 Other Hours.  
Clinical applications of disease detection, risk assessment, behavioral modification and needs-based preventative measures.

DDD 8034 Comprehensive Care Program - C  
Credits 4. 4 Other Hours.  
A clinical instruction and mentoring system with seminars that allows the student-clinician to learn to provide and coordinate patient care, as defined by clinical competencies, in a setting that simulates effectively managed dental practices that are patient centered and quality assured. It includes patient management skills, professionalism, ethics, time management, record and patient audits, work habits, treatment planning and other facets consistent with complete and socially sensitive patient care.

DDD 8044 Dental Auxiliary Utilization - C  
Credit 1. 1 Other Hour.  
Utilization of chairside dental assistant, clinical applications.

DDD 8060 Endodontics  
Credit 1. 1 Lecture Hour.  
Clinical endodontic; diagnosis and management of pulpal and periradicular disease; integration of pulpal biology and clinical practice.

DDD 8064 Endodontics – C  
Credit 1. 1 Other Hour.  
Clinical application of course DDDS 8060.

DDD 8080 Fixed Prosthodontics  
Credit 1.5. 1.5 Lecture Hour.  
Biological, physiological, anatomical, and esthetic factors related to diagnosis, treatment planning and patient treatment.

DDD 8084 Fixed Prosthodontics - C  
Credits 3. 3 Other Hours.  
Clinical application of course DDDS 8080.
DDDS 8140 Behavioral Dentistry/Dental Public Health
Credit 1. 1 Lecture Hour.
Behavioral management principles relevant to pain, anxiety, cultural background, etc. Management, treatment, prevention and disease control for geriatric patients. Motivational interviewing exercises for protection and management of oral health is taught. Dental public health and concepts of managing geriatric patients is included in the latter half of the course.

DDDS 8160 Anesthesia in Dentistry
Credits 0.5. 0.5 Lecture Hours.
Indications, contraindications, risks and techniques of enteral, parenteral and general anesthesia as applicable to dentistry.

DDDS 8180 Implant Dentistry
Credit 1. 0.5 Lecture Hours. 0.5 Lab Hours.
Indications and evidence-based rationale for dental implants, diagnosis and treatment planning, surgical concepts of placement, restorative treatment for single tooth, partially edentulous and completely edentulous patients, and maintenance procedures.

DDDS 8200 Occlusion
Credit 1. 1 Lecture Hour.
Diagnosis and treatment of potentially pathologic and clinically pathologic occlusal conditions; etiologic factors; effects of pathofunction on oral tissues; diagnostic aids and methods of treatment.

DDDS 8204 Occlusion – C
Credit 1. 1 Other Hour.
Laboratory exercises to accompany course DDDS 8200.

DDDS 8220 Operative Dentistry
Credit 1.5. 1.5 Lecture Hour.
Clinical principles of operative dentistry, the art and science of treating diseased teeth; restoration of proper tooth form, function and esthetics.

DDDS 8224 Operative Dentistry - C
Credits 3. 3 Other Hours.
Clinical application of course DDDS 8220.

DDDS 8240 Advanced Principles and Techniques of Dentoalveolar Surgery
Credit 1. 1 Lecture Hour.
Continuation of course DDDS 7120. Emphasis on more advanced principles and techniques of dentoalveolar surgery and patient management, advanced pre-prosthetic surgery, odontogenic infections and management, maxillary sinus conditions and disease, osseointegrated implants, and principles of biopsy.

DDDS 8241 Oral and Maxillofacial Surgery: Chronic Pain and Hospital Dentistry
Credit 1. 0.5 Lecture Hours. 0.5 Lab Hours.
Continuation of course DDDS 8240 with emphasis on more advanced surgical procedures and concepts; temporomandibular joint disease and chronic orofacial pain; peripheral nerve injuries; hospital dentistry; dentoalveolar and craniofacial trauma and management.

DDDS 8244 Oral and Maxillofacial Surgery - C
Credit 1. 1 Other Hour.
Clinical application of course DDDS 8240.

DDDS 8264 Oral Diagnosis - C
Credit 1.5. 1.5 Other Hour.
Provides the format for the student’s practical experience in the diagnosis and treatment planning for the dental patient; clinical rotations with patient screening; the diagnosis and treatment planning for assigned clinical patients.

DDDS 8280 Clinical Principles of Patient Evaluation
Credits 2. 2 Lecture Hours.
Diagnostic sciences and clinical principles of patient evaluation; interactive case-based, problem-solving course requiring the utilization of differential diagnosis skills of clinical oral signs and symptoms with an emphasis on oral pathology and a variety of head and neck diseases and conditions encountered in the practice of dentistry.

DDDS 8304 Oral Radiography - C
Credits 0.5. 0.5 Other Hours.
Application of basic principles, procedures and techniques of clinical radiology to patients.

DDDS 8320 Orthodontics
Credit 1. 1 Lecture Hour.
Introduction to orthodontic diagnosis and treatment; biological principles of tooth movement; cephalometric analysis; fundamentals of design, selection, and use of fixed and removable appliance systems and interdisciplinary interaction.

DDDS 8324 Orthodontics - C
Credits 0.5. 0.5 Other Hours.
Clinical application of course DDDS 8320.

DDDS 8340 Pediatric Dentistry
Credit 1.5. 1.5 Lecture Hour.
Lectures and small-group seminars covering treatment planning and child management; special problems in pediatric dentistry; emphasis on complete dental rehabilitation of patients.

DDDS 8344 Pediatric Dentistry - C
Credit 1. 1 Other Hour.
Clinical application of course DDDS 8340.

DDDS 8360 Periodontics
Credit 1. 1 Lecture Hour.
Introduction to advanced periodontal techniques; periodontics as it relates to general practice and comprehensive case analysis, and treatment planning emphasizing periodontal literature and interdisciplinary concerns.

DDDS 8364 Periodontics - C
Credits 2. 2 Other Hours.
Clinical application of course DDDS 8360.

DDDS 8370 Professional Ethics
Credit 1. 1 Lecture Hour.
Principles and theory; case analysis and decision-making; humanizing health care; general ethics; obligations of health professionals; bioethics; review of dental-specific ethics literature; includes small group sessions.

DDDS 8380 Medical Pharmacology
Credit 1.5. 1.5 Lecture Hour.
Pharmacology of drugs used in medicine impacting dental patient evaluation and management. Focus is on fundamental drug information necessary for patient evaluation, the drug history and understanding potential adverse events, mechanisms of action, pharmacokinetics pharmacodynamics, and drug interactions with medications prescribed for dental procedures.

DDDS 8400 Removable Prosthodontics
Credit 1.5. 1.5 Lecture Hour.
Fabrication delivery and management of removable complete dentures, partial dentures and immediate dentures.

DDDS 8404 Removable Prosthodontics - C
Credits 3. 3 Other Hours.
Clinical application of course DDDS 8400.
DDDS 8500 Office Medical Emergencies  
Credit 0.5. 0.5 Lecture Hours.  
Prevention, recognition and management of medical emergencies; management of medically compromised patients.

DDDS 8600 Advanced Removable Prosthodontics  
Credit 1. 1 Lecture Hour.  
Extension of course DDDS 8400 with emphasis on advanced concepts for removable complete dentures, partial dentures, immediate dentures and prosthetic restoration of implants.

DDDS 8610 Periodontics  
Credits 0.5. 0.3 Lecture Hours. 0.3 Lab Hours.  
Intended to reinforce the principles of non-surgical management of periodontal disease and to better prepare for first clinical experiences; a review of periodontal hand instrumentation, infection control in the clinic and hands-on set-up and use of the Cavitron ultrasonic instrument; includes the relationship of periodontics and restorative dentistry and the proper usage of radiosurgery in dentistry.  
Prerequisites: DDDS 7270 and DDDS 7274.

DDDS 9000 Summer Clinic  
Credits 0.  
All phases of clinical practice; mandatory attendance for fourth-year students.

DDDS 9004 Clinical Services Assignment - C  
Credits 4.5. 4.5 Other Hours.  
Clinical Services Assignment – C. Continuing clinical experience in selected specialties; emergency treatment in a practice setting; oral and maxillofacial surgery appropriate for general practice; oral diagnosis; treatment planning.

DDDS 9030 Diagnosis and Treatment Planning Seminar  
Credit 1. 1 Lecture Hour.  
Lecture and small group sessions familiarize students with “phase treatment planning,” interviewing patients, systemic disease issues, disease control, definitive treatment, maintenance and recall.

DDDS 9040 Advancements in Techniques and Materials  
Credit 1.5. 1.5 Lecture Hour.  
Innovations and advancements in dental materials and techniques; advantages and disadvantages; scientific basis for selection of materials and techniques.

DDDS 9044 General Dentistry - C  
Credits 20. 20 Other Hours.  
All phases of general dentistry performed as required for each assigned patient; seminars and student presentations. The General Dentistry program is inclusive of fixed prosthodontics, geriatrics, removable prosthodontics, operative dentistry, oral and maxillofacial surgery, oral diagnosis, orthodontics, pediatric dentistry, periodontics, endodontics, community health and preventive dentistry, oral radiography, and special care clinic.

DDDS 9050 Selected Advanced Topics in Oral And Maxillofacial Surgery  
Credits 0.5. 0.3 Lecture Hours. 0.3 Lab Hours.  
Emphasis is on more advanced and complex oral and maxillofacial surgical concepts more typically performed by the specialist in oral and maxillofacial surgery; extending the student’s capability for patient evaluation. Topics include major facial trauma, bone grafting, reconstruction of head and neck defects, orthographics, life threatening infections and others.

DDDS 9070 Orthodontics  
Credit 1. 1 Lecture Hour.  
Comprehensive case analysis and treatment planning; role of the general dentist in detection, interception and treatment of orthodontic problems.

DDDS 9080 Community Dentistry Externship  
Credits 0.5. 0.5 Other Hours.  
Clinical experiences with historically underserved populations throughout a community dental center, the juvenile justice center, and other public health facilities.

DDDS 9090 Pediatric Dentistry  
Credit 1. 1 Lecture Hour.  
Lectures and small-group seminars, including child abuse, practice management, cleft lip/palate and case-based problem-solving exercises.

DDDS 9110 Applied Pharmacology  
Credit 1. 1 Lecture Hour.  
Pharmacology in dental practice; therapeutic use of drugs; toxicology; practice in evaluating patient drug histories with special emphasis on drug interactions in patients receiving multiple drug therapy.

DDDS 9120 Practice Administration  
Credit 1. 1 Lecture Hour.  
Associateships, other professional practice opportunities, purchasing existing practices; locating and financing a dental practice; taxes and insurance; management, staffing and delegation of duties marketing; Occupational Safety and Health Administration; stress management; third-party consideration.

DDDS 9140 Professional Ethics and Dental Jurisprudence  
Credits 0.5. 0.5 Lecture Hours.  
Principles and theory, professional responsibility; case discussion and analysis/decision-making; humanizing health care; virtue ethics; legal aspects of dental practice; state board interactions and policies.

DDDS 9160 Senior Seminar  
Credit 1. 1 Lecture Hour.  
Topics and issues of special concern to dental practitioners.

DDDS 9190 Advanced Principles of Patient Evaluation  
Credit 1. 1 Lecture Hour.  
Advanced problem-solving for complex dental diagnostic issues; case presentations with focus on medically compromised patients, uncommon dental diseases and treatment planning.

DDDS 9200 Comprehensive Care for the Medically Compromised and Special Needs Patients  
Credits 0.5.  
Reviews management and treatment issues relevant to medically compromised and special needs patients. Includes health history, medication issues, treatment planning, material and techniques, clinical management and needs assessment for sedation. The information enhances the students interactions in the special care clinic and the General Dentistry Clinic.

DDDS 9210 Advanced Technologies in General Dentistry  
Credits 0.5.  
Utilization of advanced technologies such as radiosurgery, the dental operating microscope, soft tissue lasers, CAD/CAM systems, the Isolite retraction/illumination/aspiration system and the iTero Optical impression system in order to familiarize the students with the operation and use of this equipment prior to use in the clinic.
DDDS 9220 Enteral Conscious Sedation and Emergency Protocols
Credit 1.
Provides information regarding Level 1 permit rules and regulations, physical assessment, pharmacology of enteral agents, local anesthesia/nitrous implications, pediatric assessment and clinical protocols related to the safe delivery of Enteral Conscious Sedation; satisfies the didactic requirements for a Level 1 Minimal Sedation Permit in the State of Texas. Must be taken on a satisfactory/unsatisfactory basis.

DDDS 9230 Advanced Endodontics Concepts
Credits 0.5. 6 Lecture Hours.
Advanced course for senior dental students to broaden their understanding of clinical endodontic concepts including cleaning and shaping techniques, complex diagnoses, obturation systems, irrigation protocols, inter-relationship of endodontics with restorative and periodontal principles, resorption, and National Board review.
Prerequisites: ENDO 7020, ENDO 7024, ENDO 8060.

DDDS 9240 National Board Dental Exam Part II Review
Credit 1. 1 Lecture Hour.
Formal establishment of a mandatory NDBE II review course in the fall semester of the D4 curriculum; intended outcome of this review is to increase the first-time pass rate on the NBDE II.
Prerequisite: DDDS 7410.

DDDS 9250 Managing Cultural Issues in Patience Care
Credits 0.5. 0.5 Lecture Hours.
Allows student reflection on care provided to patients who identify with cultures that differ from their own to assess strengths and weaknesses in their ability to provide culturally sensitive care and recognize strategies that can be used to effectively manage similar encounters in the future. Must be taken on a satisfactory/unsatisfactory basis.