

## SCHOOL OF DENTAL MEDICINE DENTAL PROGRAM

*(The Dental curriculum is subject to change without notice.)*

### First Year Fall Semester

#### **DSAD 5522 Professional Decision Making in Dentistry 1.8 cr.**

Decision making in four categories: development of professional; dental topics; measurement issues; applied decision making. Students are introduced to professionalism, dental history, dentistry as a career, description/disease measurement, dental problems, prevention, manpower/utilization issues, scientific thinking, and ethics/professionalism.

#### **DSAD 5855 Independent Study Variable cr.**

#### **DSBS 5500 Craniofacial Biology 3.1 cr.**

Deals with the chemical basis of biological organization and function. Emphasis is given to topics most directly relevant to oral health and disease.

#### **DSBS 5502 Microanatomy 2.8 cr.**

This course will cover initially the structure and function of cells and tissues and progress to study the normal structural features of the organs of the body, as the basis for understanding pathologic conditions and disturbances of function.

#### **DSBS 5504 Human Anatomy 6.2 cr.**

Dental Anatomy covers the gross- and neuro-anatomy of the back, upper extremity, thorax, abdomen, and head and neck, and the embryology of the head and neck. Students will dissect cadavers and study computer generated cross-sections and reconstructions.

#### **DSRE 5001 Introduction to Dentistry 3.1 cr.**

To introduce the beginning dental students to the program with an overview of dental concepts and procedures.

#### **DSRE 5500 Dental Morphology 0.8 cr.**

Anatomical characteristics of the primary and permanent teeth in the human dentition, intra-arch relationships are considered in detail.

#### **DSRE 5501 Dental Morphology Laboratory 0.6 cr.**

Waxing full crowns of each tooth type to correct anatomical form, emphasizing intra-arch relationships.

#### **DSRE 5504 Dental Materials Science 1 1.4 cr.**

Basic information about materials science includes physical, chemical, mechanical, and biological properties. This information provides the background for the study of specific materials used in dentistry.

### First Year Spring Semester

#### **DSAD 5866 Independent Study Variable cr.**

#### **DSBS 5503 Microbiology 3.1 cr.**

This course will review basic principles of general microbiology and present fundamentals of medical microbiology relevant to microorganisms of the oral cavity and sources of systemic infections with oral manifestations.

#### **DSBS 5505 Immunology 1.9 cr.**

Basic Information about the immune system; how it functions in the maintenance of health and how it can cause tissue injury.

#### **DSBS 5508 Physiology 4.0 cr.**

Deals with fundamentals of human physiology from basic cellular processes, such as membrane transport, to the organization and control of organ systems.

#### **DSBS 5514 General Pathology 3.1 cr.**

This course consists of lectures, laboratories, and discussions encompassing several basic biologic processes which interact to produce disease. These processes are considered at several levels of biologic organization ranging from clinical manifestations to molecular mechanisms.

#### **DSDD 5500 Infection Control 0.5 cr.**

This course reviews the fundamental principles of infection control including a focus on universal precautions, aseptic technique, methods of sterilization and regulatory issues.

#### **DSOP 5504 Principles of Operative Dentistry Direct Restoration 1 1.2 cr.**

This course is designed to teach students the principles of operative dentistry and the direct restoration of teeth from a problem specific approach.

#### **DSOP 5505 Principles of Operative Dentistry Direct Restoration 1 Lab 1.2 cr.**

This course integrates the principles of operative dentistry and direct restoration in a case-based laboratory environment.

#### **DSRE 5500 Dental Morphology 0.8 cr.**

Anatomical characteristics of the primary and permanent teeth in the human dentition, intra-arch relationships are considered in detail.

#### **DSRE 5501 Dental Morphology Laboratory Variable cr.**

Waxing full crowns of each tooth type to correct anatomical form, emphasizing intra-arch relationships.

#### **DSRE 5506 Occlusion 1 1.1 cr.**

This introductory course in articulation and occlusion deals with the principles of mandibular movement and reproducing these movements on an articulator. The various types of occlusions are considered as well as different treatment theories pertaining to occlusal philosophies.

#### **DSRE 5507 Occlusion 1 Laboratory 1 .1 cr.**

The laboratory course includes waxing opposing dentitions to proper occlusion, obtaining intra-oral records on patient, and mounting patient models on an articulator.

#### **DSRE 5544 Cariology 1 0.8 cr.**

The course is intended to provide the basic science information about cariogenicity of plaque, caries etiology, nutrition, microbiological basis, patterns of progression and its relation to design for surgical treatment.

#### **FIRST YEAR, Summer Semester**

##### **DSAD 5877 Independent Study Variable cr.**

##### **DSBS 5516 Organ Pathology 3.1 cr.**

This course, consisting of lectures and laboratory conferences, is designed to assist the student in learning the etiology, pathogenesis, and the changes in structure and function of specific disease entities on selected organ systems pertinent to the practice of dentistry.

##### **DSOD 5500 Health Data Collection 1 0.5 cr.**

Designed to introduce the student to the problem-oriented dental record and to a systems approach to the collection of health data. Includes both lecture and clinical phases.

##### **DSOP 5506 Principles of Operative Dentistry Direct Restoration 2 0.6 cr.**

Continuation of Principles of Operative Dentistry Direct Restoration 1. Designed to teach operative dentistry from a problem specific approach.

##### **DSOP 5507 Principles of Operative Dentistry Direct Restoration 2 Lab 0.4 cr.**

Continuation of Principles of Operative Dentistry Direct Restoration 1 Lab. Designed to teach operative dentistry from a problem specific approach.

##### **DSRE 5508 Indirect Single Tooth Restoration 1 0.6 cr.**

This course in restorative dentistry teaches the treatment of lesions and defects of single teeth using indirect restorative principles and techniques. Cast gold is the restorative material taught in this course.

#### **SECOND YEAR, Fall Semester**

##### **DSAD 6655 Clinical Dentistry 2.0 cr.**

This course is designed to recognize clinical education experiences. Learning is related to the amount of clinical activity you perform and the number of patients you serve. Patient management and scheduling efficiency are important skills to develop. Your student advocate, the patient coordinators and the faculty will work with you to improve your efficiency and skill. Dedication and a strong work ethic are required to perform well.

##### **DSAD 6855 Independent Study Variable cr.**

##### **DSBS 6600 Pharmacology 4.9 cr.**

Intensive study of drugs used in dental practice with emphasis on the basic principles of drug action. Lectures and clinical correlations are employed.

##### **DSFD 6606 Indirect Single Tooth Restoration 3 0.8 cr.**

Course teaches fundamental concepts, preparation, provisionalization, and restoration of single teeth with full gold crowns. Fundamental concepts, preparation and restoration of single teeth with cast gold onlays including two onlay designs, a maxillary onlay design, and a mandibular onlay design.

##### **DSFD 6607 Indirect Single Tooth Restoration 3 Lab 0.8 cr.**

Laboratory experience in cavity preparation, impression procedure, gold castings, and restoration of teeth with cast gold inlays and onlays.

##### **DSON 6610 Oral Pathology 1 1.9 cr.**

This course is a comprehensive review of the fundamental mechanisms and general principles of oral pathology, including developmental disturbances of oral and para-oral structures, benign and malignant tumors and cysts.

##### **DSOT 6610 Orthodontics 1 2.1 cr.**

Early physical and emotional development of the child is presented, emphasizing prenatal and neonatal influences on the craniofacial complex. The etiology and classification of malocclusion along with the development of disturbances of hard and soft tissues are introduced.

##### **DSOT 6612 Orthodontics 2 0.5 cr.**

Treatment planning for interceptive/corrective orthodontic procedures. Comprehensive diagnostic records taken. Lab techniques determine tooth size, arch length, mixed dentition and cephalometric analysis as well as the fabrication of fixed and removable appliances for interceptive and corrective orthodontic treatment are covered.

##### **DSPE 6600 Periodontics 1 2.6 cr.**

This course is designed to make the student familiar with the normal periodontium, as well as the epidemiology, etiology and pathogenesis of periodontal disease.

##### **DSRE 6600 Transition Clinic 1.9 cr.**

This course will provide second year dental students with methods and techniques for diagnosis, treatment planning, and record keeping for general dental practice and will also serve as a platform to train students in the correct use of the Axiom software.

##### **DSRE 6606 Indirect Single Tooth Restoration 2 0.8 cr.**

Course teaches fundamental concepts, preparation, provisionalization, and restoration of single teeth with full gold crowns. Fundamental concepts, preparation and restoration of single teeth with cast gold onlays. Two onlay designs, a maxillary onlay design and a mandibular onlay design taught.

##### **DSRE 6607 Indirect Single Tooth Restoration 2 Laboratory 0.8 cr.**

Course provides practical simulated clinical experience in preparation, provisionalization, and restoration of single teeth with full gold crowns. Two onlay designs, a maxillary onlay design, and a mandibular onlay design are practiced.

##### **DSRP 6600 Removable Complete Prosthodontics 1.9 cr.**

Acquaints the student with principles of removable partial and complete prosthodontics. Includes principles of partial denture design and fabrication as they relate to preventive dentistry and diagnosis/treatment of edentulous patients. Problems of treating geriatric patients are discussed.

**DSRP 6601 Removable Complete Prosthodontics Lab 0.9 cr.**

Laboratory exercises following lectures of principles of partial and complete removable prosthodontics. Students instructed in impressions, mounting casts, arrangement of artificial teeth, final waxing and familiarized with necessary steps in completing mandibular removable partial denture.

**SECOND YEAR, Spring Semester**

**DSAD 6604 Public Health and Community Dentistry 1.6 cr.**

This course exposes students to the public aspects of oral health care. It identifies the significance and scope of public health programs at all levels of government and relates the public activities to the private practice of dentistry.

**DSAD 6622 Managing Your Student Practice 1.0 cr.**

This course will address the University of Colorado School of Dental Medicine Clinic policy and procedure manual to assist each student in learning how to manage their dental school practice, making decisions that satisfy legal, societal, and ethical principles, to provide care for all patients and improve oral health. The course will also address issues in communication with the staff and faculty as well as understanding the regulatory requirements of a dental practice.

**DSAD 6866 Independent Study Variable cr.**

**DSEN 6610 Endodontics 1 & 2 0.8 cr.**

Course is an introduction to basic endodontics therapy. The philosophy of endodontics treatment and therapeutic techniques is discussed. Mechanisms of inflammation and repair are related to decisions in clinical practice.

**DSEN 6611 Endodontics 1 & 2 Lab 0.4--0.8 cr.**

This is a laboratory course in basic endodontics techniques utilizing extracted natural teeth as models of clinical treatment.

**DSFD 6610 Fixed Prosthodontics 1.1 cr.**

Advanced pre-clinical lecture course. Ceramic restorations are included with discussion of pontic design and manipulation of gold solder. Dowel-core fabrication for endodontically treated teeth is covered. Clinical application is stressed and study of diagnosis and treatment planning is expanded.

**DSFD 6611 Fixed Prosthodontics Laboratory 1.0 cr.**

Continuation of Fixed Prosthodontics with emphasis on ceramic restorations and the procedures involved in fabricating fixed bridges in the anterior of appearance zone. Restorations include direct pattern fabrication of dowel-cores to build up badly broken-down or fractured teeth.

**DSOD 6602 Oral Radiology 2.3 cr.**

Designed to introduce the students to basic radiology and to provide them with the necessary practical skills in preparation for clinical dentistry.

**DSOD 6603 Oral Radiology Laboratory 0.4 cr.**

The laboratory is designed to provide students with the necessary practical skills in preparation for clinical dentistry.

**DSON 6612 Oral Pathology 2 2.3 cr.**

This course is a continuation of Oral Pathology 1.

**DSPD 6620 Pediatric Dentistry 1 2.5 cr.**

Basic principles of clinical diagnosis and treatment of the child patient are introduced. Developmental aspects of the formation of the craniofacial complex are applied to clinical management of space maintenance, pupal, restorative, and behavior management problems.

**DSPE 6604 Periodontics 2 1.9 cr.**

This course deals with the prevention, treatment and control of periodontal disease. Currently accepted therapies are discussed in detail. In addition, the student is taught how to evaluate new therapies which periodically become available.

**DSPE 6605 Periodontics 2 Laboratory 1.8 cr.**

This course runs parallel with Periodontics 2. It is devoted to teaching the clinical skills necessary for the practice of periodontics within the context of a general dental practice.

**DSRE 6601 Transition Clinic 2 0.6 cr.**

This course will provide second year dental students with method and techniques for diagnosis, treatment planning, and record keeping for general dental practice and will also serve as a platform to train students in the correct use of Axium software. Second year dental students will begin to see patients for simple oral diagnosis appointments, periodic oral evaluations, and basic operative procedures. Students will be paired throughout the Transition Clinic. While one student serves as the assistant, the other will act as the operator. Each student should have equal opportunity to act as both the assistant and the operator. Patients are scheduled by the patient care coordinators.

**DSRE 6608 Dental Materials Science 2 1.9 cr.**

Course introduces materials used in the practice of dentistry. Their chemistry, physical properties, and biological interaction are discussed as well as their advantages, disadvantages, and methods of clinical use.

**DSRE 6612 Occlusion 2 Variable cr.**

Theory and indications treating mandibular instability with splints and equilibration. The etiology, diagnosis and treatment of occlusal trauma and mandibular dysfunction are introduced.

**DSRE 6613 Occlusion 2 Laboratory Variable cr.**

The laboratory portion of this course includes fabrication of different splint types. It also introduces the principles of equilibration and applying these principles to models.

**DSRE 6644 Cariology 2 0.7 cr.**

The course provides didactic instruction and exercises in identifying caries, learning and evaluating detection

methods. As well, the course will include identifying and correlating factors that contribute to caries, and developing programs for prevention and management to reduce identified factors.

**DSRP 6602 Removable Partial Prosthodontics 0.1—0.9 cr.**

Acquaints the student with principles of removable partial prosthodontics. Includes principles of partial denture design and fabrication as they relate to preventive dentistry.

**DSRP 6603 Removable Partial Prosthodontics Laboratory 0.4 cr.**

Laboratory exercises which follow lectures of principles of partial removable prosthodontics. The student should be familiar with all the necessary steps in completion of a mandibular removable partial denture.

**DSSD 6600 Clinical Dental Pharmacology 0.4 cr.**

Integration of basic drug mechanisms with fundamentals of clinical pharmacology and patient care.

**DSSD 6604 Pain Control 1 (Local Anesthesia) 0.9 cr.**

The anatomy of the nerve supply to the teeth and associated structures is covered. The techniques for administration of local anesthesia to the maxilla and mandible are demonstrated by the faculty and performed by the student.

**DSSD 6608 Prevention and Management of Medical Emergencies 1.7 cr.**

The prevention, diagnosis, and management of medical emergencies are presented.

**SECOND YEAR, Summer Semester**

**DSAD 6877 Independent Study Variable cr.**

**DSAD 7713 Community Assessment 0.3 cr.**

Course exposes students to community and practice structures which they may be practicing during the ACTS Program and following graduation. Students collect descriptive information about community/practice setting. Students will research, observe, and conduct informal interviewing activities at personally selected sites.

**DSEN 6610 Endodontics 1 and 2 1.3 cr.**

The course covers biology of the dental pulp and factors irritating the pulp and proper preventive measures. Endodontic procedures, such as pulp capping, pulpotomy, and pulpectomy are discussed from a biologic viewpoint. Diagnosis of pulp diseases and the relationship of clinical finding to those conditions are presented. This course is also an introduction to basic endodontic therapy. The philosophy of endodontic treatment and therapeutic techniques is discussed. Mechanisms of inflammation and repair are related to decisions in clinical practice.

**DSEN 6611 Endodontics 1 & 2 Lab 0.8 cr.**

This is a laboratory course in basic endodontics techniques utilizing extracted natural teeth as models of clinical treatment.

**DSFD 6655 Clinical Fixed Prosthodontics Variable cr.**

Clinical rotation in fixed prosthodontics.

**DSOD 6655 Clinical Oral Diagnosis Variable cr.**

Clinical rotation in oral diagnosis.

**DSOD 6657 Clinical Oral Radiology 0.6 cr.**

The purpose of this course is to provide students with experience in exposing radiographs and by completing written interpretations of all radiographs. Evaluation will be on a pass/fail basis.

**DSOP 6610 Operative Dentistry Seminar 2 0.6 cr.**

This course will present topics on operative dentistry relative to clinic patient care. Current materials and techniques as well as a review of fundamental concepts of operative dentistry will be taught.

**DSOP 6655 Clinical Operative Dentistry Variable cr.**

Clinical rotation in operative dentistry.

**DSPD 6630 Pediatric Dentistry 2 0.7 cr.**

Introductory courses in pediatric dentistry providing foundational knowledge for subsequent participation in pediatric dentistry clinical rotations. Laboratory and didactic components provide knowledge and skills for restorative treatment during the primary, transitional, and young permanent dentition phases.

**DSPE 6655 Clinical Periodontics Variable cr.**

Clinical rotation in periodontics.

**DSRE 6604 Esthetic Dentistry 1.3 cr.**

This course is designed to present information to students about those clinical dentistry procedures or concepts which are performed primarily to enhance dental esthetics.

**DSRE 6615 Comprehensive Patient Care Clinic A 0.6 cr.**

An introductory clinic for dental students. Students will provide comprehensive dental care refining technical skills, learning patient management skills in a large group practice setting

**DSRE 6612 Occlusion 2 Variable cr.**

Theory and indications treating mandibular instability with splints and equilibration. The etiology, diagnosis and treatment of occlusal trauma and mandibular dysfunction are introduced.

**DSRE 6613 Occlusion 2 Laboratory Variable cr..**

The laboratory portion of this course includes fabrication of different splint types. It also introduces the principles of equilibration and applying these principles to models.

**DSRP 6602 Removable Partial Prosthodontics 0.6 cr.**

Acquaints the student with principles of removable partial Prosthodontics. Includes principles of partial denture design and fabrication as they relate to preventive dentistry.

**DSRP 6603 Removable Partial Prosthodontics Laboratory 0.5 cr.**

Laboratory exercises which follow lectures of principles of partial removable Prosthodontics. The student should be familiar with all the necessary steps in completion of a mandibular removable partial denture.

**DSRP 6655 Clinical Removable Prosthodontics Variable cr.**

Clinical rotation in removable prosthodontics.

**DSSD 6610 Pain Control 2 (Nitrous Oxide Analgesia) 0.8 cr.**

Pharmacological indications and contraindications and prevention and treatment of complications relating to use of nitrous oxide is presented.

**DSSD 6612 Orofacial Pain .9 cr**

This course is designed to acquaint the student with the evaluation, diagnosis, management, and pathology of the temporomandibular joint. Emphasis is on the multidisciplinary nature of treating disorders of the TMJ.

**THIRD YEAR, Fall Semester**

**DSAD 7704 Community Health Education Practicum .6 cr.**

This course will provide students with guidance in completing the following Applied Dentistry Competency: Plan and implement a community health education intervention.

**DSAD 7713 Community Assessment 0.7 cr.**

Course exposes students to community and practice structures which they may be practicing during the ACTS Program and following graduation. Students collect descriptive information about community/practice setting. Students will research, observe, and conduct informal interviewing activities at personally selected sites.

**DSRE 7717 Comprehensive Patient Care Clinic B 0.6 cr.**

Continuation of Comprehensive Patient Care Clinic A with additional emphasis on the treatment of pediatric, orthodontic, geriatric, and endodontics cases.

**DSAD 7720 Behavioral, Geriatric, and Special Dentistry 1.4 cr.**

Teaches students clinical and behavioral skills needed for dental practice. Presented in three segments: behavioral patient management, geriatric dental issues, and special care dentistry.

**DSAD 7755 Clinical Dentistry 1.0 cr.**

This course is designed to recognize clinical education experiences. Learning is related to the amount of clinical activity you perform and the number of patients you serve. Patient management and scheduling efficiency are important skills to develop. Your student advocate, the patient coordinators and the faculty will work with you to improve your efficiency and skill. Dedication and a strong work ethic are required to perform well.

**DSAD 7855 Independent Study Variable cr.**

**DSEN 7755 Clinical Endodontics Variable cr.**

Clinical rotation in endodontics.

**DSFD 7755 Clinical Fixed Prosthodontics Variable cr.**

Clinical rotation in fixed prosthodontics.

**DSOD 7716 Treatment Planning Conference 1 0.3 cr.**

Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.

**DSOD 7755 Clinical Oral Diagnosis Variable cr.**

Clinical rotation in oral diagnosis.

**DSOP 7755 Clinical Operative Dentistry Variable cr.**

Clinical rotation in operative dentistry.

**DSOS 7710 Oral and Maxillofacial Surgery 2.9 cr.**

The diagnosis and treatment of oral and maxillofacial surgical problems including techniques for extraction of teeth alveoplasty, biopsy, management of infection, treatment of maxillary and mandibular fractures, and suturing techniques.

**DSPD 7700 Pediatric Dentistry 3 0.6 cr.**

Course emphasizes diagnostic and treatment considerations for pediatric patients, including lecture materials and case presentations to facilitate a good working knowledge of treatment planning/procedures covering sedation techniques as well as traumatic injuries, hospital dentistry and medically compromised patients.

**DSPE 7710 Periodontics 3 0.8 cr.**

Course is devoted to making the student familiar with the surgical management of periodontal disease. The indications and rationale for resection, reconstructive and mucogingival procedures are discussed.

**DSPE 7711 Periodontics 3 Laboratory 0.1 cr.**

The student is given the opportunity to practice a variety of clinical procedures. Pig mandibles are utilized for these laboratory exercises.

**DSPE 7755 Clinical Periodontics Variable cr.**

Clinical rotation in periodontics.

**DSRE 7704 Esthetic Dentistry 1.3 cr.**

This course is designed to present information to students about those clinical dentistry procedures or concepts which are performed primarily to enhance dental esthetics

**DSRE 7712 Implant Dentistry 1.8 cr.**

Concepts and applications of tissue integrated prostheses are presented and discussed. Topics include prosthetic techniques, diagnosis and treatment planning, analysis of current systems, qualifications and consent and clinical applications.

**DSRE 7744 Cariology 3 – Section 1 0.5 cr.**

Course provides students with a process to track patients at risk for caries, record actual caries experience, determine caries risk assessment, plan preventive care, document treatment (surgical and non-surgical) evaluate results achieved, and modify treatment as necessary.

**DSRP 7755 Clinical Removable Prosthodontics Variable cr.**

Clinical rotation in removable prosthodontics.

**DSSD 7712 Dental Pain and Emergencies 0.9 cr.**

This course covers the diagnostic and treatment considerations for the management of the patient in pain and other emergency problems encountered in general dentistry. Independent study assigned by course director.

**THIRD YEAR, Spring Semester**

**DSAD 7726 Dental Practice Planning 2.2 cr.**

Teaches students to make basic decisions relating to planning/implementation of private practice. Primary focus on practice arrangements, business formats, dental associateships, buying a practice, designing and equipping dental office, financing practice, leases, debt management, personal/professional insurance, and selecting professional advisors.

**DSAD 7757 Clinical Dentistry 2.0 cr.**

In this course, students will learn patient management and scheduling efficiency through patient contact in a clinical setting. Students must possess dedication as well as a strong work ethic. Student advocates, patient coordinators, and faculty will facilitate student development.

**DSAD 7866 Independent Study Variable cr.**

**DSDD 7700 Medical Problems and Physical Assessment 0.7 cr.**

Course provides clinical basis for assessment of patient's medical history, status including systemic disease/physical findings. Directs student from normal interpretation/prevention to degrees of systemic pathophysiology that present acutely as medical emergencies, allowing for competent treatment.

**DSDD 7702 Hospital Dentistry 0.6 cr.**

This course provides an introduction to the hospital environment and the dental treatment of patients within that environment.

**DSEN 7712 Endodontics 3 0.9 cr.**

Course addresses topics of diagnosis and management of a variety of endodontic treatment problems such as periapical pathosis, traumatic injuries, surgical intervention, and bleeding.

**DSEN 7757 Clinical Endodontics Variable cr.**

Clinical rotation in endodontics.

**DSFD 7757 Clinical Fixed Prosthodontics Variable cr.**

Clinical rotation in fixed prosthodontics.

**DSOD 7720 Treatment Planning Conference 2 0.3 cr.**

Continuation of Treatment Planning Conference 1.

**DSOD 7722 Treatment Planning Conference 3 0.2 cr.**

Continuation of DSOD 7720.

**DSOD 7724 Diagnostic Radiology 0.5 cr.**

Basic concepts and interpretative principles for panoramic radiography, TMJ radiography, sialography, xeroradiography, and extraoral views will be presented. Additionally, advanced imaging modalities that have been made available to assist in radiologic diagnoses in dentistry will be introduced.

**DSOD 7757 Clinical Oral Diagnosis Variable cr.**

Clinical rotation in oral diagnosis.

**DSOD 7755 Clinical Oncology 0.3 cr.**

One week course including lectures, seminars, tumor boards, surgery rounds, and radiation therapy conferences dealing with prevention, diagnosis, and treatment of head and neck neoplasia.

**DSOP 7757 Clinical Operative Dentistry Variable cr.**

Clinical rotation in operative dentistry.

**DSOT 7720 Orthodontics 3 1.4 cr.**

Provides students additional knowledge for clinical assessment/management of patients with orthodontic problems. Utilizes acquired knowledge from previous orthodontic courses to synthesize a general and orthodontic diagnosis, and preventive, restorative, and orthodontic treatment plan.

**DSOT 7757 Clinical Orthodontics 2.2 cr.**

Clinical rotation in orthodontics.

**DSPD 7757 Clinical Pediatric Dentistry Variable cr.**

Clinical rotation in pediatric dentistry.

**DSPE 7757 Clinical Periodontics Variable cr.**

Clinical rotation in periodontics.

**DSRE 7719 Comprehensive Patient Care Clinic C 3.0 cr.**

Comprehensive patient care activities with a focus on independence, student preparedness, technical skills, patient management and professionalism.

**DSRE 7844 Cariology 3 – Section 2 0.5 cr.**

Provides students with a process to track patients at risk for caries, record actual caries experience, determine caries risk assessment, plan preventive care, document treatment (surgical and non-surgical), evaluate results achieved, and modify treatment as necessary.

**DSRP 7757 Clinical Removable Prosthodontics Variable cr.**

Clinical rotation in removable prosthodontics.

**THIRD YEAR, Summer Semester**

**DSAD 7759 Clinical Dentistry 2.0 cr.**

In this course, students will learn patient management and scheduling efficiency through patient contact in a clinical setting. Students must possess dedication as well as a strong work ethic. Student advocates, patient coordinators, and faculty will facilitate student development.

**DSAD 7791 Community-based Clinical Dentistry 1 2.0 cr.**

All students are required to complete assignments to practice in community-based sites of the ACTS Program, The specific objectives of these clinical assignments vary according to the site assigned to each student. Sites include multi-disciplinary community health care centers, institution or hospital based treatment centers, and private practices, providing care to underserved communities.

**DSAD 7877 Independent Study 1.0—6.0 cr.**

Independent Study- assigned by course director.

**DSRE 7721 Comprehensive Patient Care Clinic D 0.6 cr.**

Continuation of Comprehensive Patient Care C with emphasis on effective practice management.

**DSEN 7759 Clinical Endodontics Variable cr.**

Clinical rotation in endodontics.

**DSFD 7759 Clinical Fixed Prosthodontics 1.0 cr.**

Clinical rotation in fixed prosthodontics.

**DSOD 7759 Clinical Oral Diagnosis Variable cr.**

Clinical rotation in oral diagnosis.

**DSOP 7759 Clinical Operative Dentistry Variable cr.**

Clinical rotation in operative dentistry.

**DSPE 7759 Clinical Periodontics Variable cr.**

Clinical rotation in periodontics.

**DSRE 7944 Cariology 3 – Section 3 0.5 cr.**

This course provides students with a process to track patients at risk for caries, record actual caries experience, determine caries risk assessment, plan preventive care, document treatment (surgical and non-surgical), evaluate results achieved, and modify treatment as necessary.

**DSRP 7759 Clinical Removable Prosthodontics 1 Variable cr.**

Clinical rotation in removable prosthodontics.

**FOURTH YEAR, Fall Semester**

**DSAD 8855 Clinical Dentistry 3.0 cr.**

In this course, students will learn patient management and scheduling efficiency through patient contact in a clinical setting. Students must possess dedication as well as a strong work ethic. Student advocates, patient coordinators, and faculty will facilitate student development.

**DSAD 8892 Community-Based Clinical Dentistry 2 6.7 cr.**

All students are required to complete assignments to practice in community-based sites of the ACTS program. The specific objectives of these clinical assignments vary according to the site assigned to each student. Sites include multi-disciplinary community health care centers, institution or hospital-based treatment centers, and private practices providing care to underserved communities.

**DSRE 8817 Comprehensive Patient Care Clinic E 0.6 cr.**

Advanced comprehensive patient care including applied principles of practice management.

**DSAD 8895 Independent Study 1.0 cr.**

**DSEN 8855 Clinical Endodontics Variable cr.**

Clinical rotation in endodontics.

**DSFD 8855 Clinical Fixed Prosthodontics Variable cr.**

Clinical rotation in fixed prosthodontics.

**DSFD 8861 Clinical Prosthodontics Seminar 0.6 cr.**

A single unit full crown procedure on a patient is performed by the student with specific time restraints and evaluation criteria. The purpose of this is to demonstrate clinical proficiency in this specific technique.

**DSOD 8855 Clinical Oral Diagnosis Variable cr.**

Clinical rotation in oral diagnosis.

**DSOP 8855 Clinical Operative Dentistry Variable cr.**

Clinical rotation in operative dentistry.

**DSOS 8855 Clinical Oral and Maxillofacial Surgery 2.5 cr.**

This is a clinical oral surgery experience including routine and surgical removal of erupted and impacted teeth and use of intravenous sedation techniques.

**DSPD 8855 Clinical Pediatric Dentistry Variable cr.**

Course is a continuation from initial clinical courses and provides further experience in developmental, behavioral, preventive, diagnostic, and therapeutic care on a comprehensive basis for pediatric patients in the primary, transitional, and permanent dentition phases and patients with special health care needs.

**DSPE 8810 Periodontics 4 0.6 cr.**

This course emphasizes the interrelationships of periodontics and restorative dentistry and the management of advanced periodontal pathology is discussed.

**DSPE 8855 Clinical Periodontics Variable cr.**

Clinical rotation in periodontics.

**DSRE 8810 Restorative Dentistry Advanced Clinical Training Service Seminar 0.8 cr.**

This seminar-type course is a broad discussion of advanced restorative techniques for complex prosthodontic rehabilitation or reconstruction cases. Specific topics such as aesthetics, TMJ considerations and materials application will be included.

**DSRE 8844 Cariology 4 0.5 cr.**

**DSRP 8855 Clinical Removable Prosthodontics Variable cr.**

Clinical rotation in removable prosthodontics.

**DSSD 8855 Clinical Emergencies 1.3 cr.**

The patient who presents with oral pain is evaluated and relief of discomfort is provided by the student under the supervision of the dental faculty.

**FOURTH YEAR, Spring Semester**

**DSAD 8812 Dental Ethics and Jurisprudence 0.9 cr.**

This course prepares students for appropriate conduct consistent with the legal and ethical principles of the dental profession. It lays the foundations for each student's continued growth with respect to the legal and ethical obligations of professionalism.

**DSAD 8822 Practice Management 1.8 cr.**

Primary focus is on financial records, billing and collections, professional insurance, fees, clinical records, third party relations, case presentation, practice analysis, dental practice marketing, and personnel management.

**DSRE 8827 Comprehensive Patient Care Clinic F 11.0 cr.**

Continuation of advanced comprehensive patient care activities for DS 4 dental students not registered for Integrated Care Clinic Dentistry.

**DSAD 8857 Clinical Dentistry 4.0 cr.**

In this course, students will learn patient management and scheduling efficiency through patient contact in a clinical setting. Students must possess dedication as well as a strong work ethic. Student advocates, patient coordinators, and faculty will facilitate student development.

**DSAD 8866 Independent Study 1.0 cr.**

**DSAD 8885 Applied Dentistry Independent Study Variable cr.**

**DSAD 8890 Integrated Care Clinical Dentistry 1.3 cr.**

All students are required to complete assignments to practice in sited of the ACTS Program that provide experience in treatment of medically compromised, disabled, or geriatric special needs patients. These clinical assignments emphasize the multidisciplinary management of complex patients within the broad context of medical care. Sites include multidisciplinary institution or hospital based treatment centers.

**DSAD 8893 Community-Based Clinical Dentistry 3 6.7 cr.**

All students are required to complete assignments to practice in community-based sites of the ACTS program. The specific objectives of these clinical assignments vary according to the site assigned to each student. Sites include multi-disciplinary community health care centers, institution or hospital-based treatment centers, and private practices providing care to underserved communities.

**DSEN 8810 Endodontics 4 0.3 cr.**

This is an advanced course in endodontics clinical practice. Endodontic implants, autogenous transplants, advanced surgical concepts and controversies will be included.

**DSOD 8820 Forensic Dentistry 0.4 cr.**

Introductory concepts and techniques in forensic dentistry are presented and discussed.

**DSRE 8810 Restorative Dentistry Advanced Clinical Training Service Seminar 0.8 cr.**

This seminar-type course is a broad discussion of advanced restorative techniques for complex prosthodontic rehabilitation or reconstruction cases. Specific topics such as aesthetics, TMJ considerations and materials application will be included.

**DSRE 8837 Comprehensive Patient Care Clinic G 11.0 cr.**

Continuation of advanced comprehensive patient care activities for DS 4 dental students not registered for Integrated Care Clinical Dentistry.

**DSAD 8855 Clinical Dentistry 3.0 cr.**

This course is designed to recognize clinical education experiences. Learning is related to the amount of clinical activity you perform and the number of patients you serve. Patient management and scheduling efficiency are important skills to develop.

**DSAD 8894 Community Based Clinical Dentistry 4 5.0 cr.**

Students complete six weeks (may elect to take additional eighteen weeks) in a non-metropolitan, community based educational site. Current sites include rural community health centers, special patient care hospitals, and migrant health care programs as well as several private practice locations.

**FOURTH YEAR, Summer Semester (as needed)**

**FOURTH YEAR, Fall Semester (as needed)**

**FIFTH YEAR FALL**

**DSAD 8847 Comprehensive Patient Care Clinic H 11.0 cr.**

Continuation of advanced comprehensive patient care activities for late DS IV dental students not registered for integrated Care Dentistry.

**DENTAL INTERNATIONAL STUDENT PROGRAM**

*(The Dental curriculum is subject to change without notice.)*

**FIRST YEAR, Spring Semester**

**DISP 7100 Restorative Preclinical Simulation 1.9 cr.**

This seminar-based course introduces the student to an overview of contemporary restorative procedures in a simulated clinical environment.

**DISP 7101 Restorative Preclinical Simulation Lab 0.7 cr.**

This laboratory-based course provides students with an overview of restorative techniques in a simulated clinical environment.

**DISP 7102 Occlusion 1.1 cr.**

Course covering principles of intra and inter-oral relationships. Course will also cover diagnosis and treatment regarding the occlusion relationship.

**DISP 7103 Occlusion Lab 0.9 cr.**

The laboratory portion of this course includes fabrication of different splint types. It also introduces principles of equilibration and applying these principles to models.

**DISP 7105 Dental Materials 1.5 cr.**

This course will highlight contemporary dental materials and address their chemical composition and clinical application.

**DISP 7106 Clinical Practice Ethics 0.6 cr.**

Case-based ethics discussion.

**DISP 7112 Cariology 0.9 cr.**

Basic knowledge about dental caries and didactic instruction and exercises in identifying caries, learning and evaluating detection methods. Additionally, identifying and correlating factors that contribute to caries, and developing programs for prevention and management to reduce identified factors.

**DISP 7113 Removable Partial Prosthodontics .4—1.2 cr.**

**DISP 7121 Endodontics 1 & 2 (2)**

Course is an introduction to basic endodontics therapy. The philosophy of endodontics treatment and therapeutic techniques is discussed. Mechanisms of inflammation and repair are related to decisions in clinical practice.

**DISP 7122 Periodontics 2 1.9 cr.**

This course deals with the prevention, treatment and control of periodontal disease. Currently accepted therapies are discussed in detail. In addition, the student is taught how to evaluate new therapies which periodically become available.

**DISP 7123 Periodontics 2 Lab 1.8 cr.**

This course is devoted to teaching the clinical skills necessary for the practice of periodontics within the context of a general dental practice.

**DISP 7124 Clinical Dental Pharmacology 1.4 cr.**

Integration of basic drug mechanisms with fundamentals of clinical pharmacology and patient care.

**DISP 7125 Pain Control 1 (Local Anesthesia) 0.9 cr.**

The anatomy of the nerve supply to the teeth and associated structures is covered. The techniques for administration of local anesthesia to the maxilla and mandible are demonstrated by the faculty and performed by the student.

**DISP 7126 Prevention and Management of Medical Emergencies 1.4 cr.**

The prevention, diagnosis, and management of medical emergencies are presented.

**DISP 7127 Medical Problems and Physical Assessment 0.7 cr.**

This course provides competent clinical basis for assessment of patient's medical history, current status including systemic disease/physical findings. Directs student from normal interpretation/prevention to systemic pathophysiology that presents as medical emergency, allowing for proper recognition/competent medical treatment.

**DISP 7128 Hospital Dentistry 0.6 cr.**

This course provides an introduction to the hospital environment and the dental treatment of patients within that environment.

**DISP 7129 Infection Control 0.5 cr.**

This course reviews the fundamental principles of infection control including a focus on universal precautions, aseptic technique, methods of sterilization and regulatory issues.

**DISP 7130 Oral Radiology 2.3 cr.**

Designed to introduce the students to basic radiology and to provide them with the necessary practical skills in preparation for clinical dentistry.

**DISP 7131 Oral Radiology Lab 0.5 cr.**

The laboratory is designed to provide students with the necessary practical skills in preparation for clinical dentistry.

**DISP 7132 Diagnostic Radiology 0.5 cr.**

Basic concepts and interpretative principles for panoramic radiography, TMJ radiography, sialography, xeroradiography, and extraoral views will be presented. Additionally, advanced imaging modalities that have been made available to assist in radiologic diagnoses in dentistry will be introduced.

**DISP 7140 Pediatric Dentistry 1 2.5 cr.**

Basic principles of clinical diagnosis and treatment of the child patient are introduced. Developmental aspects of the formation of the craniofacial complex are applied to clinical management of space maintenance, pupal, restorative, and behavior management problems.

**DISP 7160 Managing Your Student Practice 1.6 cr.**

Course provides student with knowledge/skills necessary to make the transition from pre-clinic to clinical patient. Competencies established in infection control, documentation, record keeping, patient management, medico-legal/ethical implications, professionalism, organization skills, communication skills, auxiliary utilization, and equipment/instrument utilization.

**DISP 7161 Dental Practice Planning 2.2 cr.**

Teaches students to make decisions in planning/implementation of private practice. Primary focus on alternative practice arrangements, business formats, dental associateships, buying practice, designing/equipping dental office, financing a practice, leases, debt management, personal/professional insurance, and selecting professional advisors.

**DISP 7162 Public Health and Community Dentistry 1.6 cr.**

This course exposes students to the public aspects of oral health care. It identifies the significance and scope of public health programs at all levels of government and relates the public activities to the private practice of dentistry.

**FIRST YEAR, Summer Semester**

**DISP 7202 Case Presentation 1.4 cr.**

Patient care with development of treatment plan through presentation by student to students and faculty.

**DISP 7203 Fixed Prosthodontics 1.0 cr.**

An advanced preclinical lecture course covering ceramic restorations along with discussion of pontic design and manipulation of gold solder. Dowel-core fabrication for endodontically treated teeth is covered. Clinical application is stressed and study of diagnosis and treatment planning is expanded.

**DISP 7204 Fixed Prosthodontics Laboratory 0.7 cr.**

Emphasis on ceramic restorations and procedures involved in fabricating fixed bridges in the anterior of appearance zone. Restorations include direct pattern fabrication of dowel-cores to building up badly broken-down or fractured teeth.

**DISP 7205 Comprehensive Patient Care Clinic A Variable cr.**

An introductory clinic for students providing comprehensive dental care refining technical skills, learning patient management skills in a large group practice setting.

**DISP 7206 Clinical Restorative Variable cr.**

Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/partially/fully edentulous patient needing restorative procedures. Restorative materials include amalgam, cast gold, and tooth-colored composite resins/porcelain. Emphasis on fabrication of restorations that function adequately.

**DISP 7210 Endodontics 2 2.0 cr.**

Course is an introduction to basic endodontic therapy. The philosophy of endodontic treatment and therapeutic techniques is discussed. Mechanisms of inflammation and repair are related to decisions in clinical practice.

**DISP 7211 Endodontics 2 Laboratory 0.8 cr.**

This is a laboratory course in basic endodontic techniques utilizing extracted natural teeth as models of clinical treatment.

**DISP 7212 Removable Partial Prosthodontics 0.9 cr.**

Acquaints the student with principles of removable partial prosthodontics. Includes principles of partial denture design and fabrication as they relate to preventive dentistry.

**DISP 7213 Removable Partial Prosthodontics Laboratory 0.8 cr.**

Laboratory exercises which follow lectures of principles of partial removable prosthodontics. The student should be familiar with all the necessary steps in completion of a mandibular removable partial denture.

**DISP 7216 Operative Dentistry Seminar 0.6 cr.**

This course will present topics on operative dentistry relative to clinic patient care. Current materials and techniques as well as a review of fundamental concepts of operative dentistry will be taught.

**DISP 7220 Pain Control 2 (Nitrous Oxide Analgesia) 0.8 cr.**

Pharmacological indications and contraindications and prevention and treatment of complications relating to use of nitrous oxide is presented.

**DISP 7221 Clinical Periodontics Variable cr.**

Clinical rotation in periodontics

**DISP 7222 Orofacial Pain 0.9 cr.**

This course is designed to acquaint the student with evaluation, diagnosis, arrangement and pathology of the temporomandibular joint. Emphasis is on the multidisciplinary nature of treating disorders of TMJ.

**DISP 7230 Clinical Oral Radiology 0.8 cr.**

To provide students with experience in exposing radiographs and by completing written interpretations of all radiographs.

**DISP 7114 Removable Partial Prosthodontics Lab (Section 2) .4—1.2 cr.**

**DISP 7231 Health Data Collection 1 0.6 cr.**

Designed to introduce the student to the problem-oriented dental record and to a systems approach to the collection of health data. Includes both lecture and clinical phases.

**DISP 7232 Clinical Oral Diagnosis Variable cr.**

Clinical rotation in oral diagnosis.

**DISP 7233 Clinical Dentistry 1.0 cr.**

In this course, students will learn patient management and scheduling efficiency through patient contact in a clinical setting. Students must possess dedication as well as a strong work ethic. Student advocates, patient coordinators, and faculty will facilitate student development.

**DISP 7240 Pediatric Dentistry 2 1.0 cr.**

Basic principles of clinical diagnosis and treatment of the child patient are introduced.

**FIRST YEAR, Fall Semester**

**DISP 7300 Case Presentation 2 1.7 cr.**

Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.

**DISP 7301 Comprehensive Patient Care Clinic B Variable cr.**

Continuation of Comprehensive Patient Care Clinic A with additional emphasis on the treatment of pediatric, orthodontic, geriatric, and endodontics cases.

**DISP 7302 Clinical Restorative Variable cr.**

Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/partially/fully edentulous patient needing restorative procedures. Restorative materials include amalgam, cast gold, and tooth-colored composite resins/porcelain. Emphasis on fabrication of restorations that function adequately.

**DISP 7310 Implant Dentistry 1.0 cr.**

Concepts and applications of tissue integrated prostheses are presented and discussed. Topics include an historical perspective of implant dentistry, surgical and prosthetic techniques, diagnosis and treatment planning analysis of current systems, qualifications and consent, and clinical applications.

**DISP 7311 Implant Dentistry Laboratory 1.0 cr.**

Concepts and applications of tissue integrated prostheses are presented and discussed. Topics include prosthetic techniques, diagnosis and treatment planning, analysis of current systems, qualifications and consent, and clinical applications.

**DISP 7314 Esthetic Dentistry 1.4 cr.**

This course is designed to present information to students about those clinical dentistry procedures or concepts which are performed primarily to enhance dental esthetics

**DISP 7315 Cariology II 0.5 cr.**

**DISP 7320 Oral and Maxillofacial Surgery 3.0 cr.**

The diagnosis and treatment of oral and maxillofacial surgical problems including techniques for extraction of teeth alveoplasty, biopsy, management of infection, treatment of maxillary and mandibular fractures, and suturing techniques.

**DISP 7321 Periodontics 3 0.8 cr.**

This course is devoted to making the student familiar with the surgical management of periodontal disease. The indications and rationale for resection, reconstructive and mucogingival procedures are discussed.

**DISP 7322 Oral Facial Pain 1.2 cr.**

This course is designed to acquaint the student with the evaluation, diagnosis, management, and pathology of the temporomandibular joint. Emphasis is on the multidisciplinary nature of treating disorders of TMJ.

**DISP 7323 Dental Pain and Emergencies 0.8 cr.**

This course covers the diagnostic and treatment considerations for the management of the patient in pain and other emergency problems encountered in general dentistry.

**DISP 7326 Treatment Planning Conference 1 0.9 cr.**

Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.

**DISP 7327 Periodontics 3 Laboratory 0.1 cr.**

The student is given the opportunity to practice a variety of clinical procedures. Pig mandibles are utilized for these laboratory exercises.

**DISP 7328 Clinical Periodontics Variable cr.**

Clinical rotation in periodontics.

**DISP 7329 Clinical Endodontics Variable cr.**

Clinical rotation in endodontics.

**DISP 7330 Oral Pathology 1 2.1 cr.**

This course is a comprehensive review of the fundamental mechanisms and general principles of oral pathology, including developmental disturbances of oral and para-oral structures, benign and malignant tumors and cysts.

**DISP 7331 Clinical Oral Diagnosis Variable cr.**

Clinical rotation in oral diagnosis.

**DISP 7332 Clinical Dentistry 2.0 cr.**

This course is designed to recognize clinical education experiences. Learning is related to the amount of clinical activity you perform and the number of patients you serve. Patient management and scheduling efficiency are important skills to develop.

**DISP 7340 Pediatric Dentistry 3 0.6 cr.**

Course emphasizes diagnostic/treatment considerations for pediatric patients. Lecture materials by faculty/case presentations utilized to facilitate working knowledge of treatment planning/procedures. Sedation techniques for behavior problems discussed as well as traumatic injuries, hospital dentistry and medically compromised patients.

**DISP 7360 Behavioral, Geriatric, and Special Dentistry 2.6 cr.**

Course teaches clinical/behavioral skills for successful dental practice including: behavioral patient management (managing fearful/anxious patients, communication skills), geriatric dental issues (psychosocial assessment, treatment planning, and clinical interventions), and special care dentistry (medical problems, disabilities, and health issues).

## **SECOND YEAR, Spring Semester**

**DISP 8100 Case Presentation 4 2.0 cr.**

Patient care with development of treatment plan through presentation by student to students and faculty.

**DISP 8101 Comprehensive Patient Care Clinic C Variable cr.**

Continuation of Comprehensive Patient Care Clinic B with activities focusing on independence, student preparedness, technical skills, patient management and professionalism.

**DISP 8102 Communication and Behavior Change 1.0 cr.**

**DISP 8103 Clinical Restorative Variable cr.**

Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/partially/fully edentulous patient needing restorative procedures. Restorative materials include amalgam, cast gold, and tooth-colored composite resins/porcelain. Emphasis on fabrication of restorations that function adequately.

**DISP 8105 Evidence Based Topical Reviews 1.5 cr.**

Evidence based concepts are reviewed. Methods to search the literature are demonstrated. Students research a clinically relevant topic, obtain a bibliography, and make a presentation highlighting two articles of worth. Discussion, participation, written reviews, quizzes, and a take-home final required.

**DISP 8105 Advanced Clinical Medicine 0.6 cr.**

Provides students with advanced training in clinical medicine and its effects on dental practice.

**DISP 8110 Restorative Dentistry Advanced Clinical Training Service Seminar 1.6 cr.**

This seminar-type course is a broad discussion of advanced restorative techniques for complex prosthodontic rehabilitation or reconstruction cases. Specific topics such as anesthetics, TNJ considerations and materials application will be included.

**DISP 8120 Endodontics 3 0.9 cr.**

This course addresses topics of diagnosis and management of a variety of endodontic treatment problems such as periapical pathosis, traumatic injuries, surgical intervention, and bleeding.

**DISP 8121 Endodontics 4 0.3 cr.**

This is an advanced course in endodontics clinical practice. Endodontic implants, autogenous transplants, advanced surgical concepts and controversies will be included.

**DISP 8123 Clinical Endodontics Variable cr.**

Clinical rotation in endodontics.

**DISP 8124 Clinical Periodontics Variable cr.**

Clinical rotation in periodontics.

**DISP 8125 Clinical Oral Maxillofacial Surgery 2.5 cr.**

This is a clinical oral surgery experience including routine and surgical removal of erupted and impacted teeth and use of intravenous sedation techniques.

**DISP 8126 Treatment Planning Conference 2 0.9 cr.**

Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.

**DISP 8127 Medical Problems and Physical Assessment 0.7 cr.**

This course provides competent clinical basis for assessment of patient's medical history, current status including systemic disease/physical findings. Directs student from normal interpretation/prevention to systemic pathophysiology that presents as medical emergency, allowing for proper recognition/competent medical treatment.

**DISP 8130 Clinical Oncology 0.3 cr.**

An assignment of one week for students includes lectures, seminars, tumor boards, surgery rounds, and radiation therapy conferences on a health professional approach to the prevention, diagnosis, and treatment of head and neck neoplasia.

**DISP 8131 Oral Pathology 2 2.3 cr.**

This course is a continuation of DISP 7330.

**DISP 8132 Forensic Dentistry 0.4 cr.**

Introductory concepts and techniques in forensic dentistry are presented and discussed.

**DISP 8133 Clinical Oral Diagnosis Variable cr.**

Clinical rotation in oral diagnosis.

**DISP 8134 Clinical Dentistry 2.0 cr.**

In this course, students will learn patient management and scheduling efficiency through patient contact in a clinical setting. Students must possess dedication as well as a strong work ethic. Student advocates, patient coordinators, and faculty will facilitate student development.

**DISP 8160 Dental Ethics and Jurisprudence 0.9 cr.**

This course prepares students for appropriate conduct consistent with the legal and ethical principles of the dental profession. It lays the foundations for each student's continued growth with respect to the legal and ethical obligations of professionalism.

**DISP 8161 Practice Management 1.8 cr.**

Understanding of basic management activities which must be continuously carried out in private practice. Primary focus on financial records, billing and collections, professional insurance, fees, clinical records, third party relations, case presentation, practice analysis, dental practice marketing, and personnel management.

**SECOND YEAR, Summer Semester**

**DISP 8200 Case Presentation 5 1.5 cr.**

Patient care with development of treatment plan through presentation by student to students and faculty.

**DISP 8201 Comprehensive Patient Care Clinic D 0.6 cr.**

Continued provision of Comprehensive Patient Care Clinic C with emphasis on effective practice management.

**DISP 8202 Clinical Restorative 1.8 cr.**

Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/partially/fully edentulous patient needing restorative procedures. Restorative materials include amalgam, cast gold, and tooth-colored composite resins/porcelain. Emphasis on fabrication of restorations that function adequately.

**DISP 8203 Special Care Clinic 0.2 cr.**

**DISP 8205 Advanced Clinical Medicine 0.6 cr.**

Provides students with advanced training in clinical medicine and its effects on dental practice

**DISP 8205 DISP 8211 Cariology II- Section 3 0.2 cr.**

This course provides students with a process to track patients at risk for caries, record actual caries experience, determine caries risk assessment, plan preventive care, document treatment (surgical and non-surgical), evaluate results achieved, and modify treatment as necessary.

**DISP 8220 Clinical Endodontics Variable cr.**

Clinical rotation in endodontics.

**DISP 8222 Clinical Periodontics 0.4 cr.**

Clinical rotation in periodontics.

**DISP 8223 Clinical Oral Maxillofacial Surgery Variable cr.**

Clinical rotation in oral maxillofacial surgery.

**DISP 8230 Treatment Planning Conference 3 0.2 cr.**

Patient care with development of treatment plan through presentation by student to students and faculty.

**DISP 8231 Clinical Oral Diagnosis 0.6 cr.**

Clinical rotation in oral diagnosis.

**DISP 8232 Clinical Dentistry 0.6 cr.**

Designed to recognize clinical education experiences. Learning related to amount of clinical activity performed and number of patients served. Patient management and scheduling efficiency skill development. Dedication and a strong work ethic are required to perform well.

**DISP 8240 Clinical Pediatric Dentistry 1.7 cr.**

This course provides experience in developmental, behavioral, preventive, diagnostic, and therapeutic care on a comprehensive basis for pediatric patients in the primary, transitional, and permanent dentition phases and patients with special health needs.

**DISP 8251 Clinical Orthodontics 0.2 cr.**

Clinical rotation in orthodontics.

**SECOND YEAR, Fall Semester**

**DISP 8300 Case Presentation 6 1.3 cr.**

Patient care with development of treatment plan through presentation by student to students and faculty.

**DISP 8301 Comprehensive Patient Care Clinic E Variable cr.**

Advanced comprehensive patient care including applied principles of practice management.

**DISP 8302 Clinical Restorative Variable cr.**

Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/partially/fully edentulous patient needing restorative procedures. Restorative materials include amalgam, cast gold, and tooth-colored composite resins/porcelain. Emphasis on fabrication of restorations that function adequately.

**DISP 8302 Independent Study Variable cr.**

**DISP 8304 Advanced Clinical Medicine 0.6 cr.**

This course will provide an in-depth profile of the medical conditions commonly encountered by the dental practitioner. Emphasis will be directed to the medications in common use for these conditions as well as the clinical ramifications for dental practice.

**DISP 8310 Clinical Prosthodontics Seminar 0.6 cr.**

Students gain experience in clinical use of cast restorations. Emphasis is placed on the fabrication of restorations that are to function adequately in the patient's biologic environment.

**DISP 8311 Cariology III Variable cr.**

**DISP 8321 Clinical Endodontics Variable cr.**

Clinical rotation in endodontics.

**DISP 8322 Periodontics 4 0.6 cr.**

This course empathasizes the interrelationships of periodontics and restorative dentistry and the management of advanced periodontal pathology is discussed.

**DISP 8323 Clinical Periodontics Variable cr.**

Clinical rotation in periodontics.

**DISP 8330 Clinical Oral Diagnosis Variable cr.**

Clinical rotation in oral diagnosis.

**DISP 8331 Clinical Dentistry 4.0 cr.**

This course is designed to recognize clinical education experiences. Learning is related to the amount of clinical activity you perform and the number of patients you serve. Patient management and scheduling efficiency are important skills to develop.

**DISP 8340 Clinical Pediatric Dntst 2.5 cr.**

**DISP 8350 Orthodontics 4.5 cr.**

Early physical and emotional development of the child is presented, emphasizing prenatal and neonatal influences on the craniofacial complex. The etiology and classification of malocclusion along with the development of disturbances of hard and soft tissues are introduced.

**DISP 8360 Orthodontics 3 1.6 cr.**

Primary goal of this course is to provide mechanism for students' transition to successful, independent practice following graduation. Course seeks to accomplish this goal by stimulating development of students' integration of theory, technique, and assessment skills in community based clinics in CO.

**POSTGRADUATE PERIODONTICS CERTIFICATE PROGRAM**

*(The Periodontics Certificate curriculum is subject to change without notice.)*

### First Year, Summer Semester

#### **DPER 7100 Periodontics Specialty Clinic 1 1.0 cr.**

In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

#### **DPER 7111 Advanced Periodontal Concepts 1.3 cr.**

This postdoctoral course is an intense review of periodontal procedures, in which residents are also instructed in periodontal case documentation procedures, intraoral photography, record keeping and clinical protocol.

#### **DPER 7112 Postgraduate Dental Implantology Seminar 1A 0.7 cr.**

In this initial lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (*Part 1 of three-semester course*)

#### **DPER 7113 Oral Medicine and Clinical Diagnosis 0.7 cr.**

In this postdoctoral course, students review a variety of oral diseases and accepted methods of treatment of those as well as systemic diseases manifested in the oral cavity.

### First Year, Fall Semester

#### **DPER 7200 Periodontics Specialty Clinic 2 2.0 cr.**

Prereq: DPER 7100

In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

#### **DPER 7201 Periodontal Journal Club 1A 0.7 cr.**

This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be discussed at scheduled seminars. (*Part 1 of two-semester course*)

#### **DPER 7202 Periodontics Treatment Planning 1A 0.3 cr.**

In this postdoctoral seminar course, Periodontics and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. (*Part 1 of two-semester course*)

#### **DPER 7203 Periodontal Literature Review Seminar 1A 1.7 cr.**

In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

#### **DPER 7204 Periodontal Case Presentations Seminar 1A 0.7 cr.**

In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. (*Part 1 of two-semester course*)

#### **DPER 7210 Advanced Periodontal Biology 2.0 cr.**

This postdoctoral course develops a fundamental understanding of the microscopic anatomy, cell biology and physiology of the periodontal tissues in health, during disease progression, and following periodontal therapy.

#### **DPER 7211 Pain Control & Sedation/Comprehensive Pain Management 1 2.0 cr.**

This is a postgraduate course in pain control and sedation and patient evaluation to determine appropriate modalities of pain and anxiety control. (*Part 1 of two-semester course*)

#### **DPER 7212 Postgraduate Dental Implantology Seminar 1B 0.7 cr.**

Prereq: DPER 7112

In this initial lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (*Part 2 of three-semester course*)

### First Year, Spring Semester

#### **DPER 7300 Periodontics Specialty Clinic 3 2.0 cr.**

Prereq: DPER 7100, DPER 7200

In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

#### **DPER 7301 Periodontal Journal Club 1B 0.5 cr.**

Prereq: DPER 7201

This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be discussed at scheduled seminars. (*Part 2 of two-semester course*)

#### **DPER 7302 Periodontics Treatment Planning 1B 0.5 cr.**

Prereq: DPER 7202

In this postdoctoral seminar course, Periodontics and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. (*Part 2 of two-semester course*)

#### **DPER 7303 Periodontal Literature Review Seminar 2 6.0 cr.**

Prereq: DPER 7203

In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

#### **DPER 7304 Periodontal Case Presentations Seminar 1B 1.0 cr.**

Prereq: DPER 7204

In this postdoctoral course, residents prepare and present a complete data base, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. *(Part 2 of two-semester course)*

**DPER 7305 Periodontal Research 1 1.5 cr.**

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DPER 7311 Pain Control & Sedation/Comprehensive Pain Management 2 1.0 cr.**

Prereq: DPER 7211

This is a postgraduate course in pain control and sedation, and evaluation of patients to determine appropriate modalities of pain and anxiety control. *(Part 2 of two-semester course)*

**DPER 7312 Postgraduate Dental Implantology Seminar 1C 1.0 cr.**

Prereq: DPER 7112, DPER 7212

In this initial lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. *(Part 3 of three-semester course)*

**Second Year, Summer Semester**

**DPER 8100 Periodontics Specialty Clinic 4 1.0 cr.**

Prereq: DPER 7100, DPER 7200, DPER 7300

In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

**DPER 8105 Periodontal Research 2 1.0 cr.**

Prereq: DPER 7305

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, collect and analyze the results, and write a publishable manuscript on the project.

**DPER 8106 Anesthesiology 1.3 cr.**

This is a hospital based seminar and clinical course to familiarize the resident in patient evaluation, pharmacology, airway management, IV techniques, and general anesthesia procedures.

**DPER 8113 TMJ Clinic 1A (rotation) 0.3 cr.**

Prereq: DPER 7313

TMJ disorders are reviewed and treatment provided using a variety of pharmacologic, mechanical, and biofeedback methods in these clinic sessions.

**DPER 8120 Head and Neck Anatomy 1.0 cr.**

This postdoctoral course is an advanced study of head and neck anatomy as it relates to periodontal patient care.

**DPER 8140 Scientific Wrtng & Eval 1.5 cr.**

Refinement of individual projects, presentations, and research evaluation.

**Second Year, Fall Semester**

**DPER 8200 Periodontics Specialty Clinic 5 2.0 cr.**

Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100

In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

**DPER 8201 Periodontal Journal Club 2A 0.7 cr.**

Prereq: DPER 7201, DPER 7301

This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be discussed at scheduled seminars. *(Part 1 of two-semester course)*

**DPER 8202 Periodontics Treatment Planning 2A 0.3 cr.**

Prereq: DPER 7202, DPER 7302

In this postdoctoral seminar course, Periodontics and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. *(Part 1 of two-semester course)*

**DPER 8203 Periodontal Literature Review Seminar 3 1.7 cr.**

Prereq: DPER 7203, DPER 7303

In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

**DPER 8204 Periodontal Case Presentations Seminar 2A 0.7 cr.**

Prereq: DPER 7204, DPER 7304

In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. *(Part 1 of two-semester course)*

**DPER 8205 Periodontal Research 3 1.0 cr.**

Prereq: DPER 7305, DPER 8105

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DPER 8206 Periodontics Clinical Teaching 1A 1.0 cr.**

Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. *(Part 1 of two-semester course)*

**DPER 8207 Minor Tooth Movement 1A 1.3 cr.**

This didactic and clinical course will familiarize the resident with orthodontic procedures that can be utilized in comprehensive periodontal treatment. Clinical cases will be treated in conjunction with orthodontic residents and faculty. *(Part 1 of two-semester course)*

**DPER 8212 Postgraduate Dental Implantology Seminar 2A 1.0 cr.**

Prereq: DPER 7112, DPER 7212, DPER 7312

In this initial lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. *(Part 1 of two-semester course)*

**DPER 8213 TMJ Clinic 1B (rotation) 1.0 cr.**

Prereq: DPER 7313, DPER 8113

TMJ disorders are reviewed and treatment provided in these clinic sessions.

**DPER 8221 Implants in the Orthodontic Patient 1.0 cr.**

This postdoctoral course is an in-depth study of the use of implants in patients both for restorative dentistry and as an orthodontic anchorage.

**DPER 8222 Periodontic/Orthodontic Treatment 1.0 cr.**

This postdoctoral course is a study of the interdisciplinary care of the patient with periodontal and orthodontic needs and includes a review of the literature in conjunction with a periodontist and orthodontist.

**Second Year, Spring Semester**

**DPER 8300 Periodontics Specialty Clinic 6 2.0 cr.**

Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100, DPER 8200

In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

**DPER 8301 Periodontal Journal Club 2B 0.5 cr.**

Prereq: DPER 7201, DPER 7301, DPER 8201

This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be discussed at scheduled seminars. *(Part 2 of two-semester course)*

**DPER 8302 Periodontics Treatment Planning 2B 0.5 cr.**

Prereq: DPER 7202, DPER 7302, DPER 8202

In this postdoctoral seminar course, Periodontics and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. *(Part 4 of two-semester course)*

**DPER 8303 Periodontal Literature Review Seminar 4 2.0 cr.**

Prereq: DPER 7203, DPER 7303, DPER 8203

In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

**DPER 8304 Periodontal Case Presentations Seminar 2B 1.0 cr.**

Prereq: DPER 7204, DPER 7304, DPER 8204

In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. *(Part 2 of two-semester course)*

**DPER 8305 Periodontal Research 4 1.5 cr.**

Prereq: DPER 7305, DPER 8105, DPER 8205

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DPER 8306 Periodontics Clinical Teaching 1B 1.5 cr.**

Prereq: DPER 8206

Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. *(Part 2 of two-semester course)*

**DPER 8307 Minor Tooth Movement 1B 2.0 cr.**

Prereq: DPER 8207

This didactic and clinical course will familiarize the resident with orthodontic procedures that can be utilized in comprehensive periodontal treatment. Clinical cases will be treated in conjunction with orthodontic residents and faculty. *(Part 2 of two-semester course)*

**DPER 8308 Practice Management 1.5 cr.**

This seminar series is designed to provide residents with an overview of the primary private practice options that they may pursue following residency training and how to evaluate various practice opportunities.

**DPER 8311 Advanced Immunology/Microbiology 1.5 cr.**

This postdoctoral course will review and update knowledge in the areas of microbiology and immunology relevant to homeostasis and pathology in the oral cavity.

**DPER 8312 Postgraduate Dental Implantology Seminar 2B 1.0 cr.**

Prereq: DPER 7112, DPER 7212, DPER 7312, DPER 8212

In this lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. *(Part 2 of two-semester course)*

**DPER 8314 Advanced Topics in Pharmacology 1.5 cr.**

This is an advanced course in Pharmacology that will provide residents with a review and update of pharmacology and an understanding of applied pharmacology and patient care.

**Third Year, Summer Semester**

**DPER 9100 Periodontics Specialty Clinic 7 1.0 cr.**

Prereq: DPER7100, DPER 7200, DPER 7300, DPER 8100, DPER 8200, DPER 8300

In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

**DPER 9105 Periodontal Research 5 0.5 cr.**

Prereq: DPER 7305, DPER 8105, DPER 8205, DPER 8305

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DPER 9106 Periodontics Clinical Teaching 2A 1.0 cr.**

Prereq: DPER 8206, DPER 8306

Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. *(Part 1 of two-semester course)*

**DPER 9115 Advanced Diagnosis of Oral Lesions 0.3 cr.**

This program in oral pathology is designed to prepare the student to recognize, analyze, and appreciate primary and secondary disease conditions of the oral and paraoral regions which may present in patients under his or her care and to respond in an appropriate manner when these conditions manifest

**Third Year, Fall Semester**

**DPER 9200 Periodontics Specialty Clinic 8 8.0 cr.**

Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100, DPER 8200, DPER 8300, DPER 9100

In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

**DPER 9201 Periodontal Journal Club 3A 0.5 cr.**

Prereq: DPER 7201, DPER 7301, DPER 8201, DPER 8301

This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be and discussed at scheduled seminars. *(Part 1 of two-semester course)*

**DPER 9202 Periodontics Treatment Planning 3A 1.0 cr.**

Prereq: DPER 7202, DPER 7302, DPER 8202, DPER 8302

In this postdoctoral seminar course, Periodontic and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. *(Part 1 of two-semester course)*

**DPER 9203 Periodontal Literature Review Seminar 5 4.0 cr.**

Prereq: DPER 7203, DPER 7303, DPER 8203, DPER 8303

In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

**DPER 9204 Periodontal Case Presentations Seminar 3A 2.0 cr.**

Prereq: DPER 7204, DPER 7304, DPER 8204, DPER 8304

In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. *(Part 1 of two-semester course)*

**DPER 9205 Periodontal Research 6 2.0 cr.**

Prereq: DPER 7305, DPER 8105, DPER 8205, DPER 8305, DPER 9105

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DPER 9206 Periodontics Clinical Teaching 2B 6.0 cr.**

Prereq: DPER 8206, DPER 8306, DPER 9106

Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. *(Part 2 of two-semester course)*

**DPER 9209 Periodontics Specialty Elective 2.0 cr.**

This postdoctoral course will allow the resident to gain extra experience and concentrate in an area of his/her choosing such as research, teaching, dental implants, periodontal plastic surgery, etc.

**DPER 9212 Postgraduate Dental Implantology Seminar 3A 1.0 cr.**

Prereq: DPER 7112, DPER 7212, DPER 7312, DPER 8212, DPER 8312

This lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. *(Part 1 of two-semester course)*

**Third Year, Spring Semester**

**DPER 9300 Periodontics Specialty Clinic 9 12.0 cr.**

Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100, DPER 8200, DPER 8300, DPER 9100, DPER 9200

In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

**DPER 9301 Periodontal Journal Club 3B 0.5 cr.**

Prereq: DPER 7201, DPER 7301, DPER 8201, DPER 8301, DPER 9201

This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be and discussed at scheduled seminars. *(Part 2 of two-semester course)*

**DPER 9302 Periodontics Treatment Planning 3B 0.5 cr.**

Prereq: DPER 7202, DPER 7302, DPER 8202, DPER 8302, DPER 9202

In this postdoctoral seminar course, Periodontic and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. *(Part 2 of two-semester course)*

**DPER 9303 Periodontal Literature Review Seminar 6 2.0 cr.**

Prereq: DPER 7203, DPER 7303, DPER 8203, DPER 8303, DPER 9203

In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

**DPER 9304 Periodontal Case Presentations Seminar 3B 1.0 cr.**

Prereq: DPER 7204, DPER 7304, DPER 8204, DPER 8304, DPER 9204

In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. *(Part 2 of two-semester course)*

**DPER 9305 Periodontal Research 7 3.0 cr.**

Prereq: DPER 7305, DPER 8105, DPER 8205, DPER 8305, DPER 9105, DPER 9205

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DPER 9306 Periodontics Clinical Teaching 2C 1.5 cr.**

Prereq: DPER 8206, DPER 8306, DPER 9106, DPER 9206

Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. *(Part 3 of three-semester course)*

**DPER 9309 Periodontics Specialty Elective 3.0 cr.**

This postdoctoral course will allow the resident to gain extra experience and to concentrate in an area of his/her choosing such as research, teaching, dental implants, periodontal plastic surgery, etc.

**DPER 9312 Postgraduate Dental Implantology Seminar 3B 1.0 cr.**

Prereq: DPER 7112, DPER 7212, DPER 7312, DPER 8212, DPER 8312, DPER 9212

This lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. *(Part 2 of two-semester course)*

## **MS DENTISTRY CURRICULUM**

***(The MS Dentistry curriculum is subject to change without notice.)***

**DSGD 5105 Research Methodology & Biostatistics 2.0 cr.**

This graduate course in dentistry is an in-depth study of scientific research methods, study design and organization, data gathering, and the biostatistical tools required to analyze the results of a study and carryout a scientific research project.

**DSGD 5205 Research Methodology & Biostatistics 2 2.5 cr.**

This graduate course in dentistry is an advanced in-depth study of scientific reasearch methods, study design and organization, data gathering, and the biostatistical tools required to analyze the results of a study. In addition this course requires the student to prepare a research proposal.

**DSGD 5311 Scientific Writing and Evaluation 1.5 cr.**

This graduate course in dentistry is an in-depth study of scientific writing to prepare the student to evaluate the literature as well as to prepare a scientific manuscript for publication.

**DSGD 5331 Diagnosis and Treatment of Craniofacial Pain 1.5 cr.**

This graduate course in dentistry studies the structure and function of the cranio-cervical region and stomatognathic system. Diagnosis and management of abnormal function will be emphasized relative to each specific specialty area.

**DSGD 5341 Fundamentals of Teaching / Communication 0.7 cr.**

This graduate course in dentistry prepares students to communicate effectively with patients and their families to enhance treatment planning dialogues, facilitate case presentation and acceptance, and encourage behavioral changes toward attaining and maintaining systemic and oral health.

**DSGD 5344 Advanced Radiology and Radiographic Interpretation 1.5 cr.**

This graduate course in dentistry in oral and maxillofacial radiology includes lectures and case studies in radiation physics, radiation biology, radiation hygiene and radiographic techniques. In addition, this course will provide information on advanced imaging modalities and interpretative skills.

**DSGD 6114 Advanced Oral Biology 1.5 cr.**

This graduate course in dentistry is an advanced study of clinical oral pathology, bone biology, and microbiological aspects of the oral disease processes and conditions.

**DSGD 6115 Biomechanics, Bioengineering and Biomaterials 1.1 cr.**

This graduate course in dentistry studies the biological aspects of the biocompatibility of synthetic and biologically altered materials with tissues and cells of the human body. This will include the study of treatment tools and procedures and their effect on the Dentoalveolar structures.

**DSGD 6201 Ethics, Practice Management & Jurisprudence 2.5 cr.**

This graduate course in dentistry is an in-depth study of ethics, practice management, and jurisprudence as it relates to clinical practice. The course includes advanced study and lecture in practice financial and management areas with specific experiences varying with the different specialty areas.

**DSGD 6209 Advanced Head & Neck Anatomy 1.6 cr.**

This graduate course in dentistry is an advanced study of head & neck anatomy that is relevant to the dental specialist. It includes both actual & radiographic anatomical identification.

## **ORTHODONTICS CERTIFICATE PROGRAM**

*(The Orthodontics Certificate curriculum is subject to change without notice.)*

### **FIRST YEAR, Fall Semester**

#### **DSOR 5101 Orthodontics 101 – Boot Camp 4.3 cr.**

This post-doctoral course is an intense review of the breadth and scope of orthodontics including growth and development and the different clinical orthodontic modalities.

#### **DSOR 5102 Dentofacial Growth and Development 1 2.0 cr.**

This post-doctoral course is an in-depth study of human growth and development that includes basic embryology of the head and neck, growth theories and facial and dental arch changes throughout human life.

#### **DSOR 5103 Diagnosis and Treatment Planning 1 2.0 cr.**

This post-doctoral course is an in-depth study of advanced orthodontic data gathering and interpretation as used in orthodontic diagnosis and treatment planning.

#### **DSOR 5104 Biomechanics 1 4.0 cr.**

This post-doctoral course is an in-depth, advanced study of orthodontic biomechanical systems and their effect on the craniofacial and dental structures. Included in this course are the protocols required to treat both skeletal and dental malocclusions.

#### **DSOR 5105 Research Methodology and Biostatistics 1 2.0 cr.**

This post-doctoral course is an in-depth study of scientific research methods, study design and organization, data gathering, and the biostatistical tools required to analyze the results of a study.

#### **DSOR 5107 Treatment Planning 1 4.0 cr.**

This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

#### **DSOR 5108 Current Literature Review 1 1.0 cr.**

Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

#### **DSOR 5111 History of Orthodontics & Dentofacial Orthopedics 1.0 cr.**

This post-doctoral course is an in-depth study of the development of orthodontic treatment and of orthodontics as a specialty, including the study of prominent figures that played a part in specialty and treatment development.

#### **DSOR 5841 Research 1 0.4 cr.**

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

#### **DSOR 5931 Clinical Orthodontics 1 7.8 cr.**

This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

### **FIRST YEAR, Spring Semester**

#### **DSOR 5201 Pathology/Microanatomy Spring 1.2 cr.**

This post-doctoral course is an in-depth study of orofacial pathology and microanatomy that is pertinent to orthodontic diagnosis, treatment planning, and treatment, to include the micro-anatomical effects of tooth movement.

#### **DSOR 5202 Dentofacial Growth and Development 2 2.5 cr.**

Prereq: DSOR5102

This post-doctoral course is an in-depth study of human growth and development that includes the affects of treatment on growth and development.

#### **DSOR 5203 Diagnosis and Treatment Planning 2 2.5 cr.**

Prereq: DSOR5103

This post-doctoral course is a continuation of the in-depth study of advanced orthodontic data gathering and interpretation as used in orthodontic diagnosis and treatment planning.

#### **DSOR 5204 Biomechanics 2 5.0 cr.**

Prereq: DSOR5104

This post-doctoral course is an in-depth, advanced study of orthodontic biomechanical systems and their effect on the craniofacial and dental structures. Included in this course are the protocols required to treat both skeletal and dental malocclusions.

#### **DSOR 5205 Research Methodology & Biostatistics 2 2.5 cr.**

Prereq: DSOR5105

This post-doctoral course is an in-depth study of scientific research methods, study design and organization, data gathering, and the biostatistical tools required to analyze the results of the study.

#### **DSOR 5207 Treatment Planning 2 5.0 cr.**

Prereq: DSOR5107

This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 5208 Current Literature Review 2 1.3 cr.**

Prereq: DSOR5108

Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

**FIRST YEAR, Summer Semester**

**DSOR 5211 Treatment in Preadolescent Children 1.5 cr.**

This post-doctoral course is a study of the orthodontic and pediatric care of the preadolescent patient, to include preventative and Phase I patient care.

**DSOR 5842 Research 2 0.8 cr.**

Prereq: DSOR5841

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 5932 Clinical Orthodontics 2 9.5 cr.**

Prereq: DSOR5931

This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**DSOR 5301 Head and Neck Anatomy 1.5 cr.**

This post-doctoral course is an advanced study of head and neck anatomy as it relates to orthodontic patient care.

**DSOR 5304 Biomechanics 3 1.5 cr.**

Prereq: DSOR5104, DSOR5204

This post-doctoral course is an in-depth, advanced study of orthodontic biomechanical systems and their effect on the craniofacial and dental structures. Included in this course are the protocols required to treat both skeletal and dental malocclusions.

**DSOR 5306 Dento/Craniofac Anomalie 0.7**

**DSOR 5307 Treatment Planning 3 2.0 cr.**

Prereq: DSOR5107, DSOR 5207

This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 5311 Scientific Writing and Evaluation 1.5 cr.**

This post-doctoral course is an in-depth study of scientific writing to prepare the student to evaluate the literature as well as to prepare a scientific manuscript for publication.

**DSOR 5321 Orthognathic Surgical Treatment 2.5 cr.**

This post-doctoral course is a study of the orthognathic surgical options and treatment of patients, including distraction osteogenesis and other advances in surgical techniques.

**DSOR 5843 Research 3 1.7 cr.**

Prereq: DSOR5841, DSOR5842

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 5933 Clinical Orthodontics 3 5.5 cr.**

Prereq: DSOR5931, DSOR5932

This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**DSOR 6101 Implants in the Orthodontic Patient 1.0 cr.**

This post-doctoral course is an in-depth study of the use of implants in patients both for restorative dentistry and as orthodontic anchorage.

**DSOR 6107 Treatment Planning 4 4.0 cr.**

Prereq: DSOR5107, DSOR5207, DSOR5307

This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Postdoctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**SECOND YEAR, Fall Semester**

**DSOR 6106 Dento-/Craniofacial Anomalies 4 1.1 cr.**

This post-doctoral course is a study of dental and craniofacial anomalies and the orthodontic and surgical treatment of the patients. This includes both seminar, case based, and case presentation study.

**DSOR 6108 Current Literature Review 4 1.0 cr.**

Prereq: DSOR5108, DSOR5208, DSOR5308

Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art

and science of orthodontics.

**DSOR 6111 Periodontic/Orthodontic Treatment 1.0 cr.**

This post-doctoral course is a study of the interdisciplinary care of the patient with periodontal and orthodontic needs and includes a review of the literature in conjunction with a periodontist.

**DSOR 6844 Research 4 2.2 cr.**

Prereq: DSOR5841, DSOR5842, DSOR5843

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 6934 Clinical Orthodontics IV Fall 9.9 cr.**

Prereq: DSOR5931, DSOR5932, DSOR5933

This post-doctoral course involves the advanced treatment of orthodontic problems and patient care.

Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**SECOND YEAR, Spring Semester**

**DSOR 6201 Ethics, Practice Management, Jurisprudence 2.5 cr.**

This post-doctoral course is an in-depth study of ethics, managing a practice and jurisprudence as it relates to the clinical practice of orthodontics.

**DSOR 6206 Dento/Craniofacial Anomalies 1.1 cr.**

Prereq: DSOR5106, DSOR5206, DSOR5306, DSOR6106

This post-doctoral course is a study of dental and craniofacial anomalies and the orthodontic and surgical treatment of patients. This includes both seminars, case-based and case-presentation study.

**DSOR 6207 Treatment Planning 5 5.0 cr.**

Prereq: DSOR5107, DSOR5207, DSOR5307, DSOR6107

This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 6208 Current Literature Review 5 1.3 cr.**

Prereq: DSOR5108, DSOR5208, DSOR 5308, DSOR 6108

Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

**DSOR 6845 Research 5 2.4 cr.**

Prereq: DSOR5841, DSOR5842, DSOR5843, DSOR6844

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 6935 Clinical Orthodontics 5 11.1 cr.**

Prereq: DSOR5931, DSOR5932, DSOR5933, DSOR6934

This post-doctoral course involves the advanced treatment of orthodontic problems and patient care.

Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**DSOR 6936 Review for American Board Examination 1.2 cr.**

This postgraduate course in dentistry is an advanced review course in published orthodontic research studies and techniques in preparation for taking the written portion of the American Board of Orthodontics written examination.

Restrictions: Successful completion of Year 1 of the postgraduate Program in Orthodontics.

**\* DSOR 7307 Treatment Planning VIII 3 0.3 cr.**

This postgraduate course in dentistry is an advance course studying orthodontic treatment diagnosis, treatment planning and treatment results.

**\*DSOR 7312 Orthodontic Clinical Teaching 3 0.3 cr.**

This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the pre-doctoral dental student.

**\* DSOR 7848 Research VIII 0.6 cr.**

Postgraduate course study requiring student to select research topic, define research question, do literature search on the topic, organize research project, carry out project, collect and analyze the results and write a publishable manuscript on the project.

**\*DSOR 7934 Clinical Orthodontic VIII 4.7 cr.**

This postgraduate course involves the advanced treatment orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**THIRD YEAR, Summer Semester**

**DSOR 7107 Treatment Planning 6 2.2 cr.**

Prereq: DSOR5107, DSOR5207, DSOR5307, DSOR6107, DSOR6207

This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 7112 Orthodontic Clinical Teaching 2 0.9 cr.**

This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.

**DSOR 7108 Current Literature Review 6 0.7 cr.**

Prereq: DSOR5108, DSOR5208, DSOR 5308, DSOR6108, DSOR 6208

Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

**DSOR 7846 Research 6 1.7 cr.**

Prereq: DSOR5841, DSOR5842, DSOR5843, DSOR6844, DSOR6845

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 7936 Clinical Orthodontics 6 6.4 cr.**

Prereq: DSOR5931, DSOR5932, DSOR5933, DSOR6934, DSOR6935

This post-doctoral course involves the advanced treatment of orthodontic problems and patient care.

Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**DSOR 7938 Clinical Problems 1 0.7 cr.**

Course is a case-based course to study clinical problems encountered in the practice of orthodontics by the orthodontic specialist. It requires the student to analyze and then present the records of patients who encountered less than ideal results during treatment.

**THIRD YEAR, Fall Semester**

**DSOR 7207 Treatment Planning 7 3.7 cr.**

Prereq: DSOR5107, DSOR5207, DSOR5307, DSOR6107, DSOR6207, DSOR7107

This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 7208 Current Literature Review 7 1.0 cr.**

Prereq: DSOR5108, DSOR5208, DSOR 5308, DSOR 6108, DSOR6208, DSOR 7108

Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

**DSOR 7209 Orthodontic Predoctoral Laboratory Teaching 2 0.3 cr.**

This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.

**DSOR 7212 Orthodontic Clinical Teaching 3 1.1 cr.**

This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.

**DSOR 7300 Current Literature Review VIII 3 0.5 cr.**

This postgraduate course in dentistry is an advanced course studying orthodontic literature, concentrating on evidence based orthodontic treatment.

**DSOR 7847 Research 7 1.7 cr.**

Prereq: DSOR5841, DSOR5842, DSOR5843, DSOR6844, DSOR6845, DSOR7846

Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 7937 Clinical Orthodontics 7 8.2 cr.**

Prereq: DSOR5931, DSOR5932, DSOR5933, DSOR6934, DSOR6935, DSOR 7936

This post-doctoral course involves the advanced treatment of orthodontic problems and patient care.

Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**DSOR 7939 Clinical Problems 2 1.0 cr.**

Course is a case-based course to study clinical problems encountered in the practice of orthodontics by the orthodontic specialist. It requires the student to analyze and then present the records of patients who encountered less than ideal results during treatment.

**DSOR 7940 Orthodontic Retention I 3.0 cr.**

Retention techniques, clinical studies in retention, and study of post-treatment changes in orthodontic patients. Prereq: Successfully completing Years 1 and 2 of the postgraduate program in Orthodontics and Dentofacial Orthopedics.

**DSOR 7941 Orthodontic Retention II 2.0 cr.**

Retention techniques, clinical studies in retention, and study of post-treatment changes in orthodontic patients. Prereq: Successfully completing years 1 and 2 of the postgraduate program in Orthodontics and Dentofacial Orthopedics and successful completion of the DSOR 7940.