The Dental curriculum is subject to change without notice.

First Year Fall Semester

**DSAD 5502 Drawing Conclusions from Literature – Concepts Variable 0.1-5.0 cr**
This course focuses on decision making in dentistry, the concepts section of the course will be presented and discussed segmentally through presentation of a research report on current hot topics.

**DSAD 5505 REACH course Variable 0.1-5.0 cr.**
The course will establish, teach and evaluate campus-wide student competencies in teamwork, collaborative interprofessional practice and quality and safety focusing on underserved populations. Included is an exploration of roles of the different professions involved, and skills building in teamwork/communication.

**DSAD 5855 Independent Study Variable 0.1-5.0 cr.**

**DSBS 5500 Craniofacial Biology Variable 0.1-5.0 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 Variable ..1-5.0 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 Variable 0.1-10.0 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 Variable 0.1-5.0 cr.**
To introduce the beginning dental students to the program with an overview of dental concepts and procedures.

**DSRE 5500 Dental Morphology Variable 0.1-5.0 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 0.1-5.0 cr.**
Waxing full crowns of each tooth type to correct anatomical form, emphasizing intra-arch relationships.

**DSRE 5504 Dental Materials Science 1 Variable 0.1-5.0 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 5506 REACH Course Variable 0.1-5.0 Cr**
The course will establish, teach and evaluate campus-wide student competencies in teamwork, collaborative Interprofessional practice and quality and safety, focusing in underserved populations. Included is an exploration of roles of the different professions involved, and skills building in teamwork/communication.

**DSAD 5866 Independent Study Variable 0.1-5.0 cr.**

**DSBS 5503 Microbiology Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 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.

**DSBS 5509 Infection Control Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
This course integrates the principles of operative dentistry and direct restoration in a case-based laboratory environment.

**DSRE 5506 Occlusion 1 Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
The laboratory course includes waxing opposing dentitions to proper occlusion, obtaining intra-oral records on patient, and constructing patient models on an articulator.
DSRE 5544 Cariology 1 Variable 0.1-5.0 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.
PRMD 5000 Ethics in the Health Profession-Part 1 1.0 cr
Required two-part course in ethics taught with dental, medical, nursing, pharmacy, physical therapy and physician assistant students. This course includes basic knowledge and skills in ethical theory and reasoning, professional ethics, and inter-professional approached to health care decision making.

FIRST YEAR, Summer Semester
DSAD 5877 Independent Study Variable 0.1-5.0 cr.
DSBS 5516 Organ Pathology Variable 0.1-5.0 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 Variable 0.1-5.0 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.
DSPE 5506 Principles of Operative Dentistry Direct Restoration 2 Variable 0.1-5.0 cr.
Continuation of Principles of Operative Dentistry Direct Restoration 1. Designed to teach operative dentistry from a problem specific approach.

SECOND YEAR, Fall Semester
DSAD 6605 REACH Course 0.1-5.0 cr.
This course will establish, teach and evaluate campus-wide student competencies in teamwork, collaborative interprofessional practice and quality and safety, focusing on underserved populations. Included is an exploration of roles of the different professions involved, and skills building in teamwork/communication.
DSAD 6855 Independent Study Variable 0.1-5.0 cr.
DSBS 6600 Pharmacology Variable 0.1-10.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 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.
DSRE 6600 Transition Clinic 1 Variable 0.1-5.0 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 Axium software.
DSRE 6606 Indirect Single Tooth Restoration 2 Variable 0.1-5.0 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 Variable 0.1-5.0 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
Second Year, Spring Semester

**DSAD 6606 REACH Course** 0.1-5.0 cr.
This course will establish, teach and evaluate campus-wide student competencies in teamwork, collaborative interprofessional practice and quality and safety, focusing on underserved populations. Included is an exploration of roles of the different professions involved, and skills building in teamwork/communication.

**DSAD 6622 Managing Your Student Practice** 0.1-5.0 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** 0.1-5.0 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 Variable** 0.1-5.0 cr.
This is a laboratory course in basic endodontics techniques utilizing extracted natural teeth as models of clinical treatment.

**DSFD 6610 Fixed Prosthodontics** 0.1-5.0 cr.
Advanced pre-clinical lecture course. Ceramic restorations are included with discussion of pontic design and fabrication as they relate to preventive dentistry and diagnosis/treatment of endentulous patients. Problems of treating geriatric patients are discussed.

**DSRP 6600 Combined Removable Prosthodontics Variable** 0.1-5.0 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 endentulous patients.

**DSRP 6601 Combined Removable Prosthodontics Lab Variable** 0.1-5.0 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.

**PRMD 6000 Ethics in Health Profession-Part II** 1.0 cr.
Required two-part course in ethics taught with dental, medical, nursing, pharmacy, physical therapy and physician assistant students. This course included basic knowledge and skills in ethical theory and reasoning, professional ethics and inter-professional approaches to health care decision making.
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 0.1-5.0 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 Variable 0.1-5.0 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.

**DSSD 6600 Clinical Dental Pharmacology Variable 0.1-5.0 cr.**
Integration of basic drug mechanisms with fundamentals of clinical pharmacology and patient care.

**DSSD 6604 Pain Control 1 (Local Anesthesia) Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
The prevention, diagnosis, and management of medical emergencies are presented.

**SECOND YEAR, Summer Semester**

**DSAD 6655 Clinical Dentistry Variable 0.1-5.0 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 6877 Independent Study Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 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 0.1-5.0 cr.**
Clinical rotation in fixed prosthodontics.

**DSOD 6655 Clinical Oral Diagnosis Variable 0.1-5.0 cr.**
Clinical rotation in oral diagnosis.

**DSOD 6657 Clinical Oral Radiology Variable 0.1-5.0 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 Variable 0.1-5.0 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 .01-5.0 cr.**
Clinical rotation in operative dentistry.

**DSPD 6630 Pediatric Dentistry 2 Variable 0.1-5.0 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 0.1-5.0 cr.**
Clinical rotation in periodontics.

**DSRE 6604 Esthetic Dentistry Variable 0.1-5.0 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 6612 Occlusion 2 Variable 0.1-5.0 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 0.1-5.0 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 6615 Comprehensive Patient Care Clinic A Variable 0.1-5.0 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.
DSRP 6655 Clinical Removable Prosthodontics Variable 0.1-5.0 cr.
Clinical rotation in removable prosthodontics.

DSSD 6610 Pain Control 2 (Nitrous Oxide Analgesia) Variable 0.1-5.0 cr.
Pharmacological indications and contraindications and prevention and treatment of complications relating to use of nitrous oxide is presented.

DSSD 6612 Orofacial Pain Variable 0.1-5.0 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 0.1-5.0 cr.
This course will provide students with guidance in completing the following Applied Dentistry Competency: Plan and implement a community health education intervention.

DSAD 7705 REACH Course Variable 0.1-5.0 cr.
This course will establish, teach and evaluate campus-wide student competencies in teamwork, collaborative interprofessional practice and quality and safety, focusing on underserved populations. Included is an exploration of roles of the different professions involved, and skills building in teamwork/communication.

DSAD 7713 Community Assessment Variable 0.1-5.0 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.

DSAD 7720 Behavioral, Geriatric, and Special Dentistry Variable 0.1-5.0 cr.

DSAD 7755 Clinical Dentistry 0.1-5.0 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 7755 Independent Study Variable 0.1-5.0 cr.
DSAD 7755 Clinical Removable Prosthodontics Variable 0.1-5.0 cr.
Clinical rotation in endodontics.

DSFD 7755 Clinical Fixed Prosthodontics Variable 0.1-5.0 cr.
Clinical rotation in fixed prosthodontics.

DSOD 7711 Diagnosis and Treatment of Common Oral Lesions 1 Variable 0.1-5.0
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 0.1-5.0 cr.
Clinical rotation in oral diagnosis.

DSOP 7755 Clinical Operative Dentistry Variable 0.1-5.0 cr.
Clinical rotation in operative dentistry.

DSOS 7710 Oral and Maxillofacial Surgery Variable 0.1-5.0 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.

DSPD 7700 Pediatric Dentistry 3 Variable 0.1-5.0 cr.
The 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 Variable 0.1-5.0 cr.
The 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 Variable 0.1-5.0 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 0.1-5.0 cr.
Clinical rotation in periodontics.

DSRE 7712 Implant Dentistry Variable 0.1-5.0 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.

DSRE 7717 Comprehensive Patient Care Clinic B Variable 0.1-5.0 cr.
Continuation of Comprehensive Patient Care Clinic A with additional emphasis on the treatment of pediatric, orthodontic, geriatric, and endodontics cases.

DSRE 7744 Cariology 3 – Section 1 Variable 0.1-5.0 cr.
The 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 0.1-5.0 cr.
Clinical rotation in removable prosthodontics.

**DSSD 7712 Dental Pain and Emergencies Variable .01-5.0 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 7706 REACH Course Variable 0.1-5.0 cr.**
This course will establish, teach and evaluate campus-wide student competencies in teamwork, collaborative interprofessional practice and quality and safety, focusing on vulnerable and underserved populations. Embedded within the curriculum will be an exploration of roles of the different professions involved, and skills building in teamwork/communication.

**DSAD 7709 Public Health and Community Dentistry Variable 0.1-5.0 cr.**
This course exposes student to the public aspects of oral health care. It identifies the significance and scope of the public health programs at all levels of government and relates the public activities to the private sector.

**DSAD 7723 Drawing Conclusions from Literature – Presentations Variable 0.1-5.0**
This course focuses on decision making in dentistry, the presentation of research section will be devoted to formal research presentations by each team. Presentation will follow generally accepted research presentation guidelines and will be followed by a question and answer period.

**DSAD 7726 Dental Practice Planning Variable 0.1-5.0 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 0.1-5.0 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 0.1-5.0 cr.**

**DSDD 7700 Medical Problems and Physical Assessment Variable 0.1-5.0 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 Variable 0.1-5.0 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 pathology, traumatic injuries, surgical intervention, and bleeding.

**DSM 7757 Clinical Endodontics Variable 0.1-5.0 cr.**
Clinical rotation in endodontics.

**DSFD 7757 Clinical Fixed Prosthodontics Variable 0.1-5.0 cr.**
Clinical rotation in fixed prosthodontics.

**DSOD 7712 Diagnosis and Treatment of Common Oral Lesions 2 Variable 0.1-5.0 cr.**
Continuation of DSOD 7716

**DSOD 7724 Diagnostic Radiology Variable 0.1-5.0 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 0.1-5.0 cr.**
Clinical rotation in oral diagnosis.

**DSOP 7755 Clinical Oncology Variable 0.1-5.0 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 0.1-5.0 cr.**
Clinical rotation in operative dentistry.

**DSOT 7720 Orthodontics 3 Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
Clinical rotation in orthodontics.

**DSPD 7757 Clinical Pediatric Dentistry Variable 0.1-5.0 cr.**
Clinical rotation in pediatric dentistry.

**DSPE 7757 Clinical Periodontics Variable 0.1-5.0 cr.**
Clinical rotation in periodontics.

**DSRE 7719 Comprehensive Patient Care Clinic C Variable 0.1-5.0 cr.**
Comprehensive patient care activities with a focus on independence, student preparedness, technical skills, patient management and professionalism.

**DSRE 7844 Cariology 3 – Section 2 Variable 0.1-5.0 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 0.1-5.0 cr.
Clinical rotation in removable prosthodontics.

THIRD YEAR, Summer Semester

DSAD 7759 Clinical Dentistry 0.1-5.0 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 Variable 0.1-5.0 cr.
Clinical rotation in endodontics.

DSFD 7759 Clinical Fixed Prosthodontics Variable 0.1-5.0 cr.
Clinical rotation in fixed prosthodontics.

DSOD 7759 Clinical Oral Diagnosis Variable 0.1-5.0 cr.
Clinical rotation in oral diagnosis.

DSOP 7759 Clinical Operative Dentistry Variable 0.1-5.0 cr.
Clinical rotation in operative dentistry.

DSPE 7759 Clinical Periodontics Variable 0.1-5.0 cr.
Clinical rotation in periodontics.

DSRE 7721 Comprehensive Patient Care Clinic D Variable 0.1-5.0 cr.
Continuation of Comprehensive Patient Care C with emphasis on effective practice management.

DSRE 7944 Cariology 3 – Section 3 Variable 0.1-5.0 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 0.1-5.0 cr.
Clinical rotation in removable prosthodontics.

FOURTH YEAR, Fall Semester

DSAD 8855 Clinical Dentistry Variable 0.1-5.0 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 Variable 0.1-10.0 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 multidisciplinary community health care centers, institution or hospital-based treatment centers, and private practices providing care to underserved communities.

DSAD 8895 Independent Study Variable 0.1-5.0 cr.

DSEN 8855 Clinical Endodontics Variable 0.1-5.0 cr.
Clinical rotation in endodontics.

DSFD 8855 Clinical Fixed Prosthodontics Variable 0.1-5.0 cr.
Clinical rotation in fixed prosthodontics.

DSFD 8861 Advanced Implant Prosthodontics Seminar Variable 0.1-5.0 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 0.1-5.0 cr.
Clinical rotation in oral diagnosis.

DSOP 8855 Clinical Operative Dentistry Variable 0.1-5.0 cr.
Clinical rotation in operative dentistry.

DSOS 8855 Clinical Oral and Maxillofacial Surgery Variable 0.1-5.0 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 0.1-5.0 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 Variable 0.1-5.0 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 0.1-5.0 cr.**
Clinical rotation in periodontics.

**DSRE 8810 Restorative Dentistry Advanced Clinical Training Service Seminar Variable 0.1-5.0 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 8817 Comprehensive Patient Care Clinic E Variable 0.1-5.0 cr.**
Advanced comprehensive patient care including applied principles of practice management.

**DSRE 8844 Cariology 4 Variable 0.1-5.0 cr.**
Clinical rotation in removable prosthodontics.

**DSRE 8855 Clinical Emergencies Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 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.

**DSAD 8857 Clinical Dentistry Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
**DSAD 8890 Integrated Care Clinical Dentistry 0.1-5.0 cr.**
All students are required to complete assignments to practice in sites 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 Variable 0.1-10.0 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.

**DSEN 8810 Endodontics 4 Variable .1-4 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 Variable 0.1-5 cr.**
Introductory concepts and techniques in forensic dentistry are presented and discussed.

**DSRE 8810 Restorative Dentistry Advanced Clinical Training Service Seminar Variable 0.1-5.0 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 8827 Comprehensive Patient Care Clinic F Variable 0.1-13.0 cr.**
Continuation of advanced comprehensive patient care activities for DS 4 dental students not registered for Integrated Care Clinical Dentistry.

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

**DSAD 8855 Independent Study Variable 0.1-10.0 cr.**
**DSAD 8894 Community Based Clinical Dentistry 4 Variable 0.1-10.0 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.

**DSRE 8837 Comprehensive Patient Care Clinic G Variable .01-15.0 cr.**
Continuation of advanced comprehensive patient care activities for DS 4 dental students not registered for Integrated Care Clinical Dentistry.

**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 Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
This laboratory-based course provides students with an overview of restorative techniques in a simulated clinical environment.

**DISP 7102 Occlusion Variable 0.1-5.0 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 Variable 0.1-5.0 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 7104 Independent Student Variable 0.1-5.0 cr.**

**DISP 7105 Dental Materials Variable 0.1-5.0 cr.**
This course will highlight contemporary dental materials and address their chemical composition and clinical application.

**DISP 7106 Clinical Practice Ethics Variable 0.1-5.0 cr.**
Case-based ethics discussion.

**DISP 7112 Cariology Variable 0.1-5.0 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 Complete & Removable Partial Prosthodontics Variable 0.1-5.0 cr.**

**DISP 7114 Complete & Removable Prothodontics Lab Variable 0.1-5.0**

**DISP 7121 Endodontics 1 & 2 Variable 0.1-5.0 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.

**DISP 7122 Periodontics 2 Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
Integration of basic drug mechanisms with fundamentals of clinical pharmacology and patient care.

**DISP 7125 Pain Control 1 (Local Anesthesia) Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
The prevention, diagnosis, and management of medical emergencies are presented.

**DISP 7128 Hospital Dentistry Variable 0.1-5.0 cr.**
This course provides an introduction to the hospital environment and the dental treatment of patients within that environment.

**DISP 7129 Infection Control Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
The laboratory is designed to provide students with the necessary practical skills in preparation for clinical dentistry.

**DISP 7132 Diagnostic Radiology Variable 0.1-5.0 cr.**
Basic concepts and interpretative principles for panoramic radiography, TMJ radiography, sialography, xeroradiography, and extrarctal views will be presented. Additionally, advanced imaging modalities that have been made available to assist in radiologic diagnoses in dentistry will be introduced.
**FIRST YEAR, Summer Semester**

**DISP 7140 Pediatric Dentistry 1 Variable 0.1-5.0 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, pulpal, restorative, and behavior management problems.

**DISP 7160 Managing Your Student Practice Variable 0.1-5.0 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 7163 Transition Clinic for ISP Students Variable 0.1-5.0 cr.**
A mini-orientation of clinical methods and practices and introduction to the appropriate utilization of AxiUm software. This will include an overview of the SODM oral diagnoses and treatment planning processes, procedures and policies with both clinical and didactic components.

**FIRST YEAR, Fall Semester**

**DISP 7113 Complete and Removable Prosthodontics Variable 0.1-5.0 cr.**
**DISP 7114 Complete and Removable Prosthodontics Lab Variable 0.1-5.0 cr.**
**DISP 7121 Endodontics 1 & 2 Variable 0.1-5.0 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.

**DISP 7201 Independent Study Variable 0.1-5.0 cr.**
**DISP 7202 Case Presentation Variable 0.1-5.0 cr.**
Patient care with development of treatment plan through presentation by student to students and faculty.

**DISP 7203 Fixed Prosthodontics Variable 0.1-5.0 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 Variable 0.1-5.0 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 0.1-5.0 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 0.1-5.0 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 7211 Endodontics 1 Laboratory Variable 0.1-5.0 cr.**
This is a laboratory course in basic endodontic techniques utilizing extracted natural teeth as models of clinical treatment.

**DISP 7216 Operative Dentistry Seminar 2 Variable 0.1-5.0 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) Variable 0.1-5.0 cr.**
Pharmacological indications and contraindications and prevention and treatment of complications relating to use of nitrous oxide is presented.

**DISP 7221 Clinical Periodontics Variable 0.1-5.0 cr.**
Clinical rotation in periodontics.

**DISP 7222 Orofacial Pain Variable 0.1-5.0 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 7231 Health Data Collection 1 Variable 0.1-5.0 cr.**
Clinical rotation in oral diagnosis.

**DISP 7232 Clinical Oral Diagnosis Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
Basic principles of clinical diagnosis and treatment of the child patient are introduced.

**FIRST YEAR, Fall Semester**

**DISP 7300 Case Presentation 2 Variable 0.1-5.0 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 .01-5.0 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 0.1-5.0 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 7303 Independent Study Variable 0.1-5.0**

**DISP 7310 Implant Dentistry Variable 0.1-5.0 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 7315 Cariology II Variable 0.1-5.0 cr.**

**DISP 7320 Oral and Maxillofacial Surgery Variable 0.1-5.0 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 Variable 0.1-5.0 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 7323 Dental Pain and Emergencies Variable 0.1-5.0 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 7327 Periodontics 3 Laboratory Variable 0.1-5.0 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 0.1-5.0 cr.**
Clinical rotation in periodontics.

**DISP 7329 Clinical Endodontics Variable 0.1-5.0 cr.**
Clinical rotation in endodontics.

**DISP 7330 Oral Pathology 1 Variable 0.1-5.0 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 0.1-5.0 cr.**
Clinical rotation in oral diagnosis.

**DISP 7340 Pediatric Dentistry 3 Variable 0.1-5.0 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 dental issues, and medically compromised patients.

**DISP 7360 Behavioral, Geriatric, and Special Dentistry Variable 0.1-5.0 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).

**DISP 7370 Diagnosis and Treatment of Common Oral Lesions 1 Variable 0.1-5.0 cr.**
Presentations of actual treatment cases from the comprehensive patient care program are made by student and critiqued by the faculty.

**SECOND YEAR, Spring Semester**

**DISP 8100 Case Presentation 4 Variable 0.1-5.0 cr.**
Patient care with development of treatment plan through presentation by student to students and faculty.

**DISP 8101 Comprehensive Patient Care Clinic C Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**

**DISP 8103 Clinical Restorative Variable 0.1-5.0 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 8104 Independent Study Variable 0.1-5.0 cr.**

**DISP 8105 Evidence Based Topical Reviews Variable 0.1-5.0 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 8205 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 Variable 0.1-5.0 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 8111 Cariology II-Section 2 0.3 cr.**
Provides student 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 8120 Endodontics 3 Variable 0.1-5.0 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 Variable 0.1-5.0 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 0.1-5.0 cr.**
Clinical rotation in endodontics.

**DISP 8124 Clinical Periodontics Variable 0.1-5.0 cr.**
Clinical rotation in periodontics.

**DISP 8125 Clinical Oral Maxillofacial Surgery Variable 0.1-5.0 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 8127 Medical Problems and Physical Assessment Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 cr.**
This course is a continuation of DISP 7330.

**DISP 8132 Forensic Dentistry Variable 0.1-5.0 cr.**
Introductory concepts and techniques in forensic dentistry are presented and discussed.

**DISP 8133 Clinical Oral Diagnosis Variable 0.1-5.0 cr.**
Clinical rotation in oral diagnosis.

**DISP 8134 Clinical Dentistry Variable 0.1-5.0 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 Variable 0.1-5.0 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 Variable 0.1-5.0 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.

**DISP 8170 Diagnosis and Treatment of Common Oral Lesions 2 Variable 0.1-5.0 cr.**
Continuation of DISP 7326.

**DISP 8176 Public Health and Community Dentistry Variable 0.1-5.0**
This course exposes student 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.

**SECOND YEAR, Summer Semester**

**DISP 8125 Clinical Oral Maxillofacial Surgery Variable 0.1-5.0 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 8200 Case Presentation 5 Variable 0.1-5.0 cr.**
Patient care with development of treatment plan through presentation by student to students and faculty.

**DISP 8201 Comprehensive Patient Care Clinic D Variable 0.1-5.0 cr.**
Continued provision of Comprehensive Patient Care Clinic C with emphasis on effective practice management.

**DISP 8202 Clinical Restorative Variable 0.1-5.0 cr.**
Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentate/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 8211 Cariology II- Section 3 Variable 0.1-5.0 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 0.1-5.0 cr.**
Clinical rotation in endodontics.

**DISP 8221 Clinical Prosthodontics Variable 0.1-5.0 cr.**
Clinical rotation in periodontics.

**DISP 8231 Clinical Oral Diagnosis Variable 0.1-5.0 cr.**
Clinical rotation in oral diagnosis.

**DISP 8232 Clinical Dentistry Variable 0.1-5.0 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 Variable 0.1-5.0 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.

**SECOND YEAR, Fall Semester**

**DISP 8203 Special Care Clinic Variable 0.1-5.0 cr.**
Clinical rotation in orthodontics.

**DISP 8224 Clinical Orthodontics Variable 0.2 cr.**
Clinical rotation in orthodontics.

**DISP 8300 Case Presentation 6 Variable 0.1-5.0 cr.**
Patient care with development of treatment plan through presentation by student to students and faculty.

**DISP 8301 Comprehensive Patient Care Clinic E Variable 0.1-5.0 cr.**
Advanced comprehensive patient care including applied principles of practice management.

**DISP 8302 Clinical Restorative Variable 0.1-5.0 cr.**
Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentate/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 8303 Independent Study Variable 0.1-5.0 cr.**
This course emphasizes the interrelationships of periodontics and restorative dentistry and the management of advanced periodontal pathology is discussed.

**DISP 8304 Clinical Periodontics Variable 0.1-5.0 cr.**
Clinical rotation in periodontics.

**DISP 8311 Cariology III Variable 0.1-5.0 cr.**
Clinical rotation in oral diagnosis.

**DISP 8321 Clinical Endodontics Variable 0.1-5.0 cr.**
Clinical rotation in endodontics.

**DISP 8322 Periodontics 4 Variable 0.1-5.0 cr.**
This course provides a basis for the treatment of periodontal disease, and how to develop a comprehensive management plan.

**DISP 8323 Clinical Periodontics Variable 0.1-5.0 cr.**
Clinical rotation in periodontics.

**DISP 8330 Clinical Oral Diagnosis Variable 0.1-5.0 cr.**
Clinical rotation in oral diagnosis.

**DISP 8331 Clinical Dentistry Variable 0.1-5.0 cr.**
Clinical rotation in orthodontics.

**DISP 8340 Clinical Pediatric Dentistry Variable 0.1-5.0 cr.**
Clinical rotation in pediatric dentistry.

**DISP 8350 Orthodontics Variable 0.1-10.0 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.

**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 7204 Periodontal Case Presentations Seminar 1A 0.7 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 7202 Periodontics Treatment Planning 1A 0.3 cr.
Prereq: DPER 7201
In this postdoctoral seminar course, Periodontics and GPR residents present a 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 periododontist 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 9107 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 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 paroral 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 5 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 9207 Periodontics Specialty Elective 2.0 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 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 9.2 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)

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

**Fall Semester**

**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 2.25 cr.**
This graduate course in dentistry is an advanced 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. 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 2.3 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 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: DSORS5102
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: DSORS5103
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: DSORS5104
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: DSORS5105
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: DSORS5107
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: DSORS841
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: DSORS5321
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care.

FIRST YEAR, Fall Semester

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: DSORS5104, DSORS5204
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: DSORS5107, DSORS5207
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.

SECOND YEAR, Fall Semester

DSOR 5316 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 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: DSORS5107, DSORS5207, DSORS5307
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.
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: DSORS841, DSORS842, DSORS843
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: DSORS931, DSORS932, DSORS933
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: DSORS5106, DSORS5206, DSORS5306, DSORS6106
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: DSORS5107, DSORS5207, DSORS5307, DSORS6107
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: DSORS5108, DSORS5208, DSORS5308, DSORS6108
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: DSORS5841, DSORS5842, DSORS5843, DSORS6844
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: DSORS5931, DSORS5932, DSORS5933, DSORS6934
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 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 7314 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: DSORS5107, DSORS5207, DSORS5307, DSORS6107, DSORS6207
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: DSORS5108, DSOR5208, DSOR5308, 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: DSORS931, 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 4.0 cr.
Prereq: DSORS5107, 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: DSORS5108, DSOR5208, DSOR5308, DSOR6108, 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: DSORS5841, 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 9.9 cr.
Prereq: DSORS5931, 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.