FIRST YEAR FALL SEMESTER

**DSAD 5502 Drawing Conclusions from Literature – Concepts**
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 5855 Independent Study**

**DSBS 5500 Craniofacial Biology**
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**
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**
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.

**DSBS 5506 Oral Histology**
This course will cover the details of tooth development and the histological features of the oral tissues, to include: salivary glands, oral epithelia, oral lymphatic tissue, enamel, dentin, cementum, oral bone and the periodontal ligament.

**DSRE 5001 Introduction to Dentistry**
To introduce the beginning dental students to the program with an overview of dental concepts and procedures.

**DSRE 5500 Dental Morphology**
Anatomical characteristics of the primary and permanent teeth in the human dentition, intra-arch relationships are considered in detail.

**DSRE 5501 Dental Morphology Laboratory**
Waxing full crowns of each tooth type to correct anatomical form, emphasizing intra-arch relationships.

**DSRE 5504 Dental Materials Science 1**
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.

**DSRE 5544 Cariology 1**
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.

**IPEDS001**
1.0 cr.
This course consists of 2 two-hour sessions. Students will work in interprofessional teams to review and apply key concepts and behaviors necessary for high performance teams. This course prepares students for additional interprofessional collaborative work that will occur in simulated and clinical settings in coming semesters.

FIRST YEAR SPRING SEMESTER

**DSAD 5866 Independent Study**

**DSBS 5503 Microbiology**
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**
Basic Information about the immune system; how it functions in the maintenance of health and how it can cause tissue injury.

**DSBS 5508 Physiology**
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.

**DSDD 5500 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**  Variable 0.1-5.0 cr.
The laboratory course includes waxing opposing dentitions to proper occlusion, obtaining intra-oral records on patient, and mounting patient models on an articulator.

**IPE 5002**  1.0 cr.
This course develops core competencies in teamwork and collaboration, values and ethics, and quality and safety for first-year health professions students. The course will be taught in a team-based format requiring individual preparation before each session followed by the application of that learning in through team-based activities.

**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.

**DSOP 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.

**DSOP 5507 Principles of Operative Dentistry Direct Restoration 2 Lab**  Variable 0.1-5.0 cr.
Continuation of Principles of Operative Dentistry Direct Restoration 1 Lab. Designed to teach operative dentistry from a problem specific approach.

**DSPE 5500 Periodontics 1**  Variable 0.1-5.0 cr.
This course is designed to make the student familiar with the normal periodontium, as well as the epidemiology, etiology and pathogenesis of periodontal disease.

**DSRE 5508 Indirect Single Tooth Restoration 1**  Variable 0.1-5.0 cr.
This course in restorative dentistry teaches the treatment of lesions and defects of single teeth using indirect restorative principles and techniques. Cast gold is the restorative material taught in this course.

**SECOND YEAR, Fall Semester**

**DSAD 6622 Managing Your Student Practice**  Variable 0.1-5.0 cr.
Course provides students with knowledge/skills to make the transition from pre-clinic to clinical patient. Competencies established in infection control, documentation/record keeping, patient management, medico-legal implications, ethical implications, professionalism, organization skills, communication skills, auxiliary utilization, and equipment/instrument utilization.

**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.
DSEL 9101 Spanish Study Abroad Dental Elective 10 cr.
This is an elective course for eligible students that provides the opportunity for dental students to travel to Quetzaltenango, Guatemala to study Spanish intensively for 2 weeks at Celas Maya Spanish Language School. Department consent required.

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.

DSPE 6604 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.

DSPE 6605 Periodontics 2 Laboratory Variable 0.1-5.0 cr.
This course runs parallel with Periodontics 2. It is devoted to teaching the clinical skills necessary for the practice of periodontics within the context of a general dental practice.

DSRE 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 practiced.

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. Problems of treating geriatric patients are discussed.

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.

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.

IPED 6001 Interprofessional Education and Development II 1.0 cr.
This course develops core competencies in teamwork and collaboration, values and ethics, and quality and safety for first-year health professions students. The course will be taught in a team-based format requiring individual preparation before each session followed by the application of that learning in through team-based activities.

SECOND YEAR, Spring Semester

DSAD 6622 Managing Your Student Practice Variable 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 Variable 0.1-5.0 cr.

DSEN 6610 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.

DSEN 6611 Endodontics 1 & 2 Lab Variable 0.1-5.0 cr.
This is a laboratory course in basic endodontic techniques that utilizes simulated human teeth as models for providing clinical treatment.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSFD 6610</td>
<td>Fixed Prosthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>Advanced pre-clinical lecture course. Ceramic restorations are included with discussion of pontic design and manipulation of gold solder. Dowel-core fabrication for endodontically treated teeth is covered. Clinical application is stressed and study of diagnosis and treatment planning is expanded.</td>
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<tr>
<td>DSFD 6611</td>
<td>Fixed Prosthodontics Laboratory</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>Continuation of Fixed Prosthodontics with emphasis on ceramic restorations and the procedures involved in fabricating fixed bridges in the anterior of appearance zone. Restorations include direct pattern fabrication of dowel-cores to build up badly broken-down or fractured teeth.</td>
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<tr>
<td>DSOD 6602</td>
<td>Oral Radiology</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>Designed to introduce the students to basic radiology and to provide them with the necessary practical skills in preparation for clinical dentistry.</td>
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<tr>
<td>DSOD 6603</td>
<td>Oral Radiology Laboratory</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>The laboratory is designed to provide students with the necessary practical skills in preparation for clinical dentistry.</td>
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<tr>
<td>DSON 6612</td>
<td>Oral Pathology 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>This course is a continuation of Oral Pathology 1.</td>
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<tr>
<td>DSE 6620</td>
<td>Pediatric Dentistry 1</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DSE 6605</td>
<td>Periodontics 2 Laboratory</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>This course runs parallel with Periodontics 2. It is devoted to teaching the clinical skills necessary for the practice of periodontics within the context of a general dental practice.</td>
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<tr>
<td>DSE 6610</td>
<td>Periodontics 3</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DSRE 6601</td>
<td>Transition Clinic 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>This course will provide second year dental students with method and techniques for diagnosis, treatment planning, and record keeping for general dental practice and will also serve as a platform to train students in the correct use of Axium software. Second year dental students will begin to see patients for simple oral diagnosis appointments, periodic oral evaluations, and basic operative procedures. Students will be paired throughout the Transition Clinic. While one student serves as the assistant, the other will act as the operator. Each student should have equal opportunity to act as both the assistant and the operator. Patients are scheduled by the patient care coordinators.</td>
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<tr>
<td>DSRE 6608</td>
<td>Dental Materials Science 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>Course introduces materials used in the practice of dentistry. Their chemistry, physical properties, and biological interaction are discussed as well as their advantages, disadvantages, and methods of clinical use.</td>
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<tr>
<td>DSRE 6609</td>
<td>Treatment Planning</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>Course will bridge the concepts learned in oral diagnosis, periodontics, restorative dentistry, radiology and transition clinic to help the students assimilate clinical information into clinically acceptable treatment plans that best meet patient needs.</td>
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<tr>
<td>DSRE 6612</td>
<td>Occlusion 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>Theory and indications treating mandibular instability with splints and equilibration. The etiology, diagnosis and treatment of occlusal trauma and mandibular dysfunction are introduced.</td>
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<tr>
<td>DSRE 6613</td>
<td>Occlusion 2 Laboratory</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DSRE 6644</td>
<td>Cariology 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DSSD 6600</td>
<td>Clinical Dental Pharmacology</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>Integration of basic drug mechanisms with fundamentals of clinical pharmacology and patient care.</td>
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<tr>
<td>DSSD 6604</td>
<td>Pain Control 1 (Local Anesthesia)</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>DSSD 6608</td>
<td>Prevention and Management of Medical Emergencies</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>The prevention, diagnosis, and management of medical emergencies are presented.</td>
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</tr>
</tbody>
</table>
IPED 6001 Interprofessional Education and Development II 1.0 cr.
This course develops core competencies in teamwork and collaboration, values and ethics, and quality and safety for first-year health professions students. The course will be taught in a team-based format requiring individual preparation before each session followed by the application of that learning in through team-based activities.

SECOND YEAR, Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>DSAD 6877 Independent Study</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DSAD 7713 Community Assessment</td>
<td>0.3 cr.</td>
</tr>
<tr>
<td>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.</td>
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</tr>
<tr>
<td>DSEN 6610 Endodontics 1 &amp; 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>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.</td>
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<tr>
<td>DSEN 6611 Endodontics 1 &amp; 2 Lab</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>This is a laboratory course in basic endodontic techniques that utilizes simulated human teeth as models for providing clinical treatment.</td>
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<tr>
<td>DSFD 6655 Clinical Fixed Prosthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>Clinical rotation in fixed prosthodontics.</td>
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<tr>
<td>DSOD 6655 Clinical Oral Diagnosis</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>Clinical rotation in oral diagnosis.</td>
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<tr>
<td>DSOP 6600 Pre-clinical Operative Dentistry Workshop</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>Practical restorative exercises in extracted natural teeth.</td>
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<tr>
<td>DSOP 6610 Operative Dentistry Seminar 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>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.</td>
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</tr>
<tr>
<td>DSOP 6655 Clinical Operative Dentistry</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>Clinical rotation in operative dentistry.</td>
<td></td>
</tr>
<tr>
<td>DSOS 7710 Oral and Maxillofacial Surgery</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>DSPD 6630 Pediatric Dentistry 2</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>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.</td>
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<tr>
<td>DSPE 6655 Clinical Periodontics</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>Clinical rotation in periodontics.</td>
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<tr>
<td>DSRE 6604 Esthetic Dentistry</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>This course is designed to present information to students about those clinical dentistry procedures or concepts which are performed primarily to enhance dental esthetics.</td>
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<tr>
<td>DSRE 6612 Occlusion 2</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>Theory and indications treating mandibular instability with splints and equilibration. The etiology, diagnosis and treatment of occlusal trauma and mandibular dysfunction are introduced.</td>
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</tr>
<tr>
<td>DSRE 6613 Occlusion 2 Laboratory</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>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.</td>
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</tr>
<tr>
<td>DSRE 6615 Comprehensive Patient Care Clinic A</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>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.</td>
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</tr>
<tr>
<td>DSRP 6655 Clinical Removable Prosthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>Clinical rotation in removable prosthodontics.</td>
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</tbody>
</table>
DSRE 6614 Dental Photography Variable 0.1-5.0 cr.
Dental photography skills and camera familiarization will be presented and practiced. Students will learn specific criteria for each of the eight basic shots, proper aseptic technique for dental photography, as well as patient positioning, retraction and the use of mirrors. Department consent required.

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.

THIRD YEAR, Fall Semester

DSAD 7704 Community Health Education Practicum Variable 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 Interprofessional Education Development 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 7722 Drawing Conclusions from Literature – Application Variable 0.1-5.0 cr.
This course focuses on decision making in dentistry, during the hands-on section the students will be randomly assigned to research observations, and will design a research project/methodology to address their team’s assigned observation.

DSAD 7855 Independent Study Variable 0.1-5.0 cr.

DSEL 9100 Advanced Readings in Pediatric Dentistry Variable 0.1-5.0 cr.
Elective seminar offered to interested DS3 students. Each week a different topic in pediatric dentistry will be covered. Students will be expected to read and discuss relevant, current, peer reviewed journal articles and to complete one final assignment.

DSEL 9101 Spanish Study Abroad Dental Elective Variable 0.1-5.0 cr.
This is an elective course for eligible students that provides the opportunity for dental students to travel to Quetzaltenango, Guatemala to study Spanish intensively for 2 weeks at Celas Maya Spanish Language School. Department consent required.

DSEN 7755 Clinical Endodontics 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 cr.
Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.

DSOD 7755 Clinical Oral Diagnosis Variable 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.
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.
DSPD 7755 Clinical Pediatric Dentistry  Variable 0.1-5.0 cr.
The is a continuation from initial clinical courses providing further experience in developmental, behavioral, preventive, diagnostic, and therapeutic care on a comprehensive basis for pediatric patients in primary, transitional, and permanent dentition phases and patients with special health care needs.

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 7935 Treatment Planning and Case Presentation 1  Variable 0.1-5.0 cr.
Treatment planning concepts and presentation formats, focused on multidisciplinary approach, key tooth analysis, phased treatment plans and case presentation format and technique.

DSRP 7755 Clinical Removable Prosthodontics  Variable 0.1-5.0 cr.
Clinical rotation in removable prosthodontics.

DSSD 7712 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. Independent study assigned by course director.

THIRD YEAR, Spring Semester

DSAD 7706 Interprofessional Education Development  1.0 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 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 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.

DSEL 9100 Advanced Readings in Pediatric Dentistry  Variable 0.1-5.0 cr.
Elective seminar offered to interested DS3 students. Each week a different topic in pediatric dentistry will be covered. Students will be expected to read and discuss relevant, current, peer reviewed journal articles and to complete one final assignment.

DSEN 7712 Endodontics 3  0.9 cr.
Course addresses topics of diagnosis and management of a variety of endodontic treatment problems such as periapical pathosis, traumatic injuries, surgical intervention, and bleeding.

DSEN 7757 Clinical Endodontics  Variable 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
Continuation of DSOD 7716

Variable 0.1-5.0 cr.

DSOD 7724 Diagnostic Radiology
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.

Variable 0.1-5.0 cr.

DSOD 7757 Clinical Oral Diagnosis
Clinical rotation in oral diagnosis.

Variable 0.1-5.0 cr.

DSON 7755 Clinical Oncology
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.

Variable 0.1-5.0 cr.

DSOP 7757 Clinical Operative Dentistry
Clinical rotation in operative dentistry.

Variable 0.1-5.0 cr.

DSOT 7720 Orthodontics 2
Covers Cephalometric analysis laboratory, fabrication of fixed and removable appliances for interceptive and corrective
orthodontic treatment. Utilizes acquired knowledge from the previous orthodontic course to synthesize a general and
orthodontic diagnosis; and preventive, restorative, and orthodontic treatment plan.

Variable 0.1-5.0 cr.

DSOT 7757 Clinical Orthodontics
Clinical rotation in orthodontics.

Variable 0.1-5.0 cr.

DSPD 7757 Clinical Pediatric Dentistry
Clinical rotation in pediatric dentistry.

Variable 0.1-5.0 cr.

DSPE 7757 Clinical Periodontics
Clinical rotation in periodontics.

Variable 0.1-5.0 cr.

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

Variable 0.1-5.0 cr.

DSRE 7936 Treatment Planning and Case Presentation 2
Treatment planning concepts and presentation formats, focused on multidisciplinary approach, key tooth analysis, phased
treatment plans and case presentation format and technique.

Variable 0.1-5.0 cr.

DSRP 7757 Clinical Removable Prosthodontics
Clinical rotation in removable prosthodontics.

Variable 0.1-5.0 cr.

THIRD YEAR, Summer Semester

DSAD 7791 Community-based Clinical Dentistry 1
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.

Variable 0.1-5.0 cr.

DSAD 7877 Independent Study
Independent Study- assigned by course director.

Variable 0.1-5.0 cr.

DSEL 9102 Trifinio Guatemala Dental Elective
This course is offered to eligible students who wish to travel for one week to Trifinio, Guatemala to provide comprehensive
dental care at the CU Center for Global Health's Trifinio Health Clinic. Department consent required.

Variable 0.1-5.0 cr.

DSEN 7759 Clinical Endodontics
Clinical rotation in endodontics.

Variable 0.1-5.0 cr.

DSFD 7759 Clinical Fixed Prosthodontics
Clinical rotation in fixed prosthodontics.

Variable 0.1-5.0 cr.

DSOD 7759 Clinical Oral Diagnosis
Clinical rotation in oral diagnosis.

Variable 0.1-5.0 cr.

DSOP 7759 Clinical Operative Dentistry
Clinical rotation in operative dentistry.

Variable 0.1-5.0 cr.
### School of Dental Medicine

**DSPE 7720 Periodontics 4**  
This course emphasizes the interrelationship of periodontics and restorative dentistry and the management of advanced periodontal pathology is discussed.  
*Variable 0.1-5.0 cr.*

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

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

**DSRP 7759 Clinical Removable Prosthodontics 1**  
Clinical rotation in removable prosthodontics.  
*Variable 0.1-5.0 cr.*

### FOURTH YEAR, Fall Semester

**DSAD 8892 Community-Based Clinical Dentistry 2**  
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.  
*Variable 0.1-10.0 cr.*

**DSAD 8895 Independent Study**  
*Variable 0.1-5.0 cr.*

**DSEL 9101 Spanish Study Abroad Dental Elective**  
This is an elective course for eligible students that provides the opportunity for dental students to travel to Quetzaltenango, Guatemala to study Spanish intensively for 2 weeks at Celas Maya Spanish Language School. Department consent required.  
*Variable 0.1-5.0 cr.*

**DSEL 9102 Trifinio Guatemala Dental Elective**  
This course is offered to eligible students who wish to travel for one week to Trifinio, Guatemala to provide comprehensive dental care at the CU Center for Global Health's Trifinio Health Clinic. Department consent required.  
*Variable 0.1-5.0 cr.*

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

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

**DSFD 8861 Advanced Implant Prosthodontics Seminar**  
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.  
*Variable 0.1-5.0 cr.*

**DSOD 8855 Clinical Oral Diagnosis**  
Clinical rotation in oral diagnosis.  
*Variable 0.1-5.0 cr.*

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

**DSOS 8855 Clinical Oral and Maxillofacial Surgery**  
This is a clinical oral surgery experience including routine and surgical removal of erupted and impacted teeth and use of intravenous sedation techniques.  
*Variable 0.1-5.0 cr.*

**DSPE 8855 Clinical Periodontics**  
Clinical rotation in periodontics.  
*Variable 0.1-5.0 cr.*

**DSRE 8810 Restorative Dentistry Advanced Clinical Training Service Seminar**  
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.  
*Variable 0.1-5.0 cr.*

**DSRE 8817 Comprehensive Patient Care Clinic E**  
Advanced comprehensive patient care including applied principles of practice management.  
*Variable 0.1-5.0 cr.*

**DSRE 8945 Treatment Planning and Case Presentation**  
Treatment planning concepts and presentation formats, focused on multidisciplinary approach, key tooth analysis, phased treatment plans and case presentation format and technique.  
*Variable 0.1-5.0 cr.*

**DSRP 8855 Clinical Removable Prosthodontics 2**  
Clinical rotation in removable prosthodontics.  
*Variable 0.1-5.0 cr.*

**DSSD 8855 Clinical Emergencies**  
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.  
*Variable 0.1-5.0 cr.*
### FOURTH YEAR, Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSAD 8812</td>
<td>Dental Ethics and Jurisprudence</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DSAD 8822</td>
<td>Practice Management</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>DSAD 8866</td>
<td>Independent Study</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSAD 8890</td>
<td>Integrated Care Clinical Dentistry</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>All students are required to complete assignments to practice in sited of the ACTS Program that provide experience in treatment of medically compromised, disabled, or geriatric special needs patients. These clinical assignments emphasize the multidisciplinary management of complex patients within the broad context of medical care. Sites include multidisciplinary institution or hospital based treatment centers.</td>
<td></td>
</tr>
<tr>
<td>DSAD 8893</td>
<td>Community-Based Clinical Dentistry 3</td>
<td>Variable 0.1-10.0 cr.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>DSEL 9102</td>
<td>Trifinio Guatemala Dental Elective</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>This course is offered to eligible students who wish to travel for one week to Trifinio, Guatemala to provide comprehensive dental care at the CU Center for Global Health's Trifinio Health Clinic. Department consent required.</td>
<td></td>
</tr>
<tr>
<td>DSEN 8810</td>
<td>Endodontics 4</td>
<td>Variable 0.1-4.0 cr.</td>
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<tr>
<td></td>
<td>This is an advanced course in endodontics clinical practice. Endodontic implants, autogenous transplants, advanced surgical concepts and controversies will be included.</td>
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<tr>
<td>DSEN 8757</td>
<td>Clinical Endodontics</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>Clinical rotation in endodontics.</td>
<td></td>
</tr>
<tr>
<td>DSFD 8757</td>
<td>Clinical Fixed Prosthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Clinical rotation in fixed prosthodontics.</td>
<td></td>
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<tr>
<td>DSOD 8820</td>
<td>Forensic Dentistry</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Introductory concepts and techniques in forensic dentistry are presented and discussed.</td>
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<tr>
<td>DSOD 8757</td>
<td>Clinical Oral Diagnosis</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Clinical rotation in oral diagnosis.</td>
<td></td>
</tr>
<tr>
<td>DSOP 8757</td>
<td>Clinical Operative Dentistry</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Clinical rotation in operative dentistry.</td>
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</tr>
<tr>
<td>DSPE 8757</td>
<td>Clinical Periodontics</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Clinical rotation in periodontics.</td>
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</tr>
<tr>
<td>DSRE 8810</td>
<td>Restorative Dentistry Advanced Clinical Training Service Seminar</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DSRE 8827</td>
<td>Comprehensive Patient Care Clinic F</td>
<td>Variable 0.1-13.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Continuation of advanced comprehensive patient care activities for DS 4 dental students not registered for Integrated Care Clinic Dentistry.</td>
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</tr>
<tr>
<td>DSRE 8946</td>
<td>Treatment Planning and Case Presentation 4</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Treatment planning concepts and presentation formats, focused on multidisciplinary approach, key tooth analysis, phased treatment plans and case presentation format and technique.</td>
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</tr>
<tr>
<td>DSRP 8757</td>
<td>Clinical Removable Prosthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<td>Clinical rotation in removable prosthodontics.</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSAD 8859</td>
<td>Independent Study</td>
<td>Variable 0.1-10.0 cr.</td>
</tr>
<tr>
<td>DSAD 8894</td>
<td>Community Based Clinical Dentistry 4</td>
<td>Variable 0.1-10.0 cr.</td>
</tr>
<tr>
<td>DSAD 8894</td>
<td>Community Based Clinical Dentistry 4</td>
<td>Variable 0.1-10.0 cr.</td>
</tr>
</tbody>
</table>

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10 | School of Dental Medicine
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)**

**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 Prosthodontics** Variable 0.1-5.0 cr.

**DISP 7114 Complete & 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 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.
<table>
<thead>
<tr>
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<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>DISP 7126</td>
<td>Prevention and Management of Medical Emergencies</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7129</td>
<td>Infection Control</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7130</td>
<td>Oral Radiology</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7131</td>
<td>Oral Radiology Lab</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7132</td>
<td>Diagnostic Radiology</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7140</td>
<td>Pediatric Dentistry 1</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7160</td>
<td>Managing Your Student Practice</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7163</td>
<td>Transition Clinic for ISP Students</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7199</td>
<td>Communication and Behavior Change</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7121</td>
<td>Endodontics 1 &amp; 2</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7201</td>
<td>Independent Study</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DISP 7202</td>
<td>Case Presentation 1</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DISP 7203</td>
<td>Fixed Prosthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7204</td>
<td>Fixed Prosthodontics Laboratory</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7205</td>
<td>Comprehensive Patient Care Clinic A</td>
<td>Variable 0.1-5.0 cr.</td>
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</tbody>
</table>

**FIRST YEAR, Summer Semester**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>DISP 7113</td>
<td>Complete and Removable Prosthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7114</td>
<td>Complete and Removable Prosthodontics Lab</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7119</td>
<td>Communication and Behavior Change</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 7121</td>
<td>Endodontics 1 &amp; 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<td>DISP 7201</td>
<td>Independent Study</td>
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<tr>
<td>DISP 7202</td>
<td>Case Presentation 1</td>
<td>Variable 0.1-5.0 cr.</td>
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<td>DISP 7203</td>
<td>Fixed Prosthodontics</td>
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<tr>
<td>DISP 7204</td>
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</tr>
<tr>
<td>DISP 7205</td>
<td>Comprehensive Patient Care Clinic A</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
</tbody>
</table>
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 7214 Dental Photography**
Variable 0.1-5.0 cr.
Dental photography skills and camera familiarization will be presented and practiced. Students will learn specific criteria for each of the eight basic shots, proper aseptic technique for dental photography, as well as patient positioning, retraction and the use of mirrors.

**DISP 7221 Dental Periodontics**
Clinical rotation in periodontics

**DISP 7240 Pediatric Dentistry 2**
Variable 0.1-5.0 cr.
Basic principles of clinical diagnosis and treatment of the child patient are introduced.

**DISP 7242 Orofacial Pain**
This course is designed to acquaint the student with evaluation, diagnosis, arrangement and pathology of the temporomandibular joint. Emphasis is on the multidisciplinary nature of treating disorders of TMJ.

**DISP 7250 Oral and Maxillofacial Surgery**
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.

**FIRST YEAR, Fall Semester**

**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 7214 Dental Photography**
Variable 0.1-5.0 cr.
Dental photography skills and camera familiarization will be presented and practiced. Students will learn specific criteria for each of the eight basic shots, proper aseptic technique for dental photography, as well as patient positioning, retraction and the use of mirrors.

**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**
Clinical rotation in periodontics

**DISP 7222 Orofacial Pain**
This course is designed to acquaint the student with evaluation, diagnosis, arrangement and pathology of the temporomandibular joint. Emphasis is on the multidisciplinary nature of treating disorders of TMJ.

**DISP 7230 Oral and Maxillofacial Surgery**
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 7231 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.

**DISP 7232 Clinical Oral Diagnosis**
Clinical rotation in oral diagnosis.

**DISP 7234 Oral and Maxillofacial Surgery**
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 7235 Independent Study**
Variable 0.1-5.0 cr.
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 7314 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.

**DISP 7320 Oral and Maxillofacial Surgery**
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 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 7328 Clinical Periodontics**  
Clinical rotation in periodontics.  
Variable 0.1-5.0 cr.

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

**DISP 7330 Oral Pathology 1**  
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.  
Variable 0.1-5.0 cr.

**DISP 7331 Clinical Oral Diagnosis**  
Clinical rotation in oral diagnosis.  
Variable 0.1-5.0 cr.

**DISP 7340 Pediatric Dentistry 3**  
Course emphasizes diagnostic/treatment considerations for pediatric patients. Lecture materials by faculty/case presentations utilized to facilitate working knowledge of treatment planning/procedures. Sedation techniques for behavior problems discussed as well as traumatic injuries, hospital dentistry and medically compromised patients.  
Variable 0.1-5.0 cr.

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

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

**DISP 8401 Spanish Study Abroad Elective**  
This is an elective course for eligible students that provides the opportunity for ISP students to travel to Quetzaltenango, Guatemala to study Spanish intensively for 2 weeks at Celas Maya Spanish Language School. Department consent required.  
Variable 0.1-5.0 cr.

**SECOND YEAR, Spring Semester**

**DISP 8100 Case Presentation 3**  
Patient care with development of treatment plan through presentation by student to students and faculty.  
Variable 0.1-5.0 cr.

**DISP 8101 Comprehensive Patient Care Clinic C**  
Continuation of Comprehensive Patient Care Clinic B with activities focusing on independence, student preparedness, technical skills, patient management and professionalism.  
Variable 0.1-5.0 cr.

**DISP 8104 Independent Study**  
Variable 0.1-5.0 cr.

**DISP 8205 Advanced Clinical Medicine**  
Provides students with advanced training in clinical medicine and its effects on dental practice.  
0.6 cr.

**DISP 8110 Restorative Dentistry Advanced Clinical Training Service Seminar**  
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.  
Variable 0.1-5.0 cr.

**DISP 8120 Endodontics 3**  
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.  
Variable 0.1-5.0 cr.

**DISP 8121 Endodontics 4**  
This is an advanced course in endodontics clinical practice. Endodontic implants, autogenous transplants, advanced surgical concepts and controversies will be included.  
Variable 0.1-5.0 cr.

**DISP 8123 Clinical Endodontics**  
Clinical rotation in endodontics.  
Variable 0.1-5.0 cr.

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

**DISP 8125 Clinical Oral Maxillofacial Surgery**  
This is a clinical oral surgery experience including routine and surgical removal of erupted and impacted teeth and use of intravenous sedation techniques.  
Variable 0.1-5.0 cr.

**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 8128 Hospital Dentistry**
This course provides an introduction to the hospital environment and the dental treatment of patients within that environment.

**DISP 8130 Clinical Oncology**
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**
This course is a continuation of DISP 7330.

**DISP 8132 Forensic Dentistry**
Introductory concepts and techniques in forensic dentistry are presented and discussed.

**DISP 8133 Clinical Oral Diagnosis**
Clinical rotation in oral diagnosis.

**DISP 8135 Clinical Operative Dentistry**
Clinical rotation in operative dentistry.

**DISP 8136 Clinical Fixed Prosthodontics**
Clinical rotation in fixed prosthodontics.

**DISP 8137 Clinical Removable Prosthodontics**
Clinical rotation in removable prosthodontics.

**DISP 8160 Dental Ethics and Jurisprudence**
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**
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 8162 Dental Practice Planning**
All students will be required to complete a minimum of six weeks and may elect an additional eighteen weeks experience in a non-metropolitan community-based educational site. The specific objectives of these clinical experiences vary according to the specific sites of assignment. Current sites for student experiences include multi-disciplinary rural community health centers, special patient care hospitals for patients with psychiatric illness and neuropathologically impaired patients, and migrant health care program. Additionally, a number of private practice locations are available for students desiring private practice experience. (Students may be assigned or elect this course in the Spring or Summer semesters of the fourth academic year.)

**DISP 8170 Diagnosis and Treatment of Common Oral Lesions 2**
Continuation of DISP 7326

**DISP 8176 Public Health and Community Dentistry**
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.

**DISP 8203 Special Care Clinic**

**DISP 8402 Trifinio Guatemala ISP Elective**
This course is offered to eligible students who wish to travel for one week to Trifinio, Guatemala to provide comprehensive dental care at the CU Center for Global Health's Trifinio Health Clinic. Department consent required.

**SECOND YEAR, Summer Semester**

**DISP 8105 Evidence Based Topical Reviews**
Introduction to concepts of evidence based dentistry and hierarchy of evidence for clinically relevant topics. Students develop clinically relevant queries and submit PICO questions, bibliographies, publication critiques, and make presentations regarding he evidence for their topic to their classmates/faculty.

**DISP 8125 Clinical Oral Maxillofacial Surgery**
This is a clinical oral surgery experience including routine and surgical removal of erupted and impacted teeth and use of intravenous sedation techniques.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DISP 8200</td>
<td>Case Presentation 4</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8201</td>
<td>Comprehensive Patient Care Clinic D</td>
<td>0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 8203</td>
<td>Special Care Clinic</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8204</td>
<td>Independent Study</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8220</td>
<td>Clinical Endodontics</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8222</td>
<td>Clinical Periodontics</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8231</td>
<td>Clinical Oral Diagnosis</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8240</td>
<td>Clinical Pediatric Dentistry</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8251</td>
<td>Clinical Orthodontics</td>
<td>0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 8322</td>
<td>Periodontics 4</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8402</td>
<td>Trifinio Guatemala ISP Elective</td>
<td>0.1-5.0 cr.</td>
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**SECOND YEAR, Fall Semester**

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<thead>
<tr>
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<tbody>
<tr>
<td>DISP 8105</td>
<td>Evidence Based Topical Reviews</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8203</td>
<td>Special Care Clinic</td>
<td>0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 8300</td>
<td>Case Presentation 5</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8301</td>
<td>Comprehensive Patient Care Clinic E</td>
<td>0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 8303</td>
<td>Independent Study</td>
<td>0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 8310</td>
<td>Advanced Implant Prosthodontics Seminar</td>
<td>0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 8321</td>
<td>Clinical Endodontics</td>
<td>0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 8323</td>
<td>Clinical Periodontics</td>
<td>0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 8330</td>
<td>Clinical Oral Diagnosis</td>
<td>0.1-5.0 cr.</td>
</tr>
<tr>
<td>DISP 8340</td>
<td>Clinical Pediatric Dentistry</td>
<td>0.1-5.0 cr.</td>
</tr>
</tbody>
</table>
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.

DISP 8355 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. Department Consent Required.

DISP 8401 Spanish Study Abroad Elective  
Variable 0.1-5.0 cr.
This is an elective course for eligible students that provides the opportunity for ISP students to travel to Quetzaltenango, Guatemala to study Spanish intensively for 2 weeks at Celas Maya Spanish Language School. Department consent required.

DISP 8402 Trifinio Guatemala ISP Elective  
Variable 0.1-5.0 cr.
This course is offered to eligible students who wish to travel for one week to Trifinio, Guatemala to provide comprehensive dental care at the CU Center for Global Health’s Trifinio Health Clinic. Department consent required.

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 7101 Current Literature 1  
1.25 cr.
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

DPER 7103 Periodontal Literature Review Seminar I  
1.25 cr.
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

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 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.

DPER 7114 Physical Diagnosis  
1.0-2.0 cr.

DPER 7115 Interdisciplinary Course 1A  
1.0 cr.
Seminar includes residents from GPR and Graduate Periodontics and GPR, periodontics, and prosthodontics faculty to share clinically relevant multidisciplinary information. Patient diagnostic evaluations and treatment plans are evaluated in an interactive environment. Topics involving new advancements are presented and discussed. Department Consent required.

DPER 7211 Pain Control & Sedation/Comprehensive Pain Management  
2.0 cr.
This is a postgraduate course for pain control and sedation and evaluation of patients to determine appropriate modalities of pain and anxiety control. Department Consent Required.

First Year, Fall Semester

DSGD 5105 Research Methodology & Biostatistics 1  
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 carry out a scientific research project.

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 Periodontics Current Literature 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 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.

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DPER 7204</td>
<td>Periodontal Case Presentations Seminar 1A</td>
<td>0.7 cr.</td>
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<tr>
<td></td>
<td>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)</td>
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<tr>
<td>DPER 7210</td>
<td>Advanced Periodontal Biology</td>
<td>2.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DPER 7212</td>
<td>Postgraduate Dental Implantology Seminar 1B</td>
<td>0.7 cr.</td>
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<td></td>
<td>Prereq: DPER 7112</td>
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<tr>
<td></td>
<td>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)</td>
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</tr>
<tr>
<td>DPER 7215</td>
<td>Interdisciplinary Course 1B</td>
<td>1.75 cr.</td>
</tr>
<tr>
<td></td>
<td>Seminar includes residents from GPR and Graduate Periodontics and GPR, periodontics, and prosthodontics faculty to share clinically relevant multidisciplinary information. Patient diagnostic evaluations and treatment plans are evaluated in an interactive environment. Topics involving new advancements are presented and discussed. Department consent required.</td>
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<tr>
<td>DPER 7216</td>
<td>Pharmacology I</td>
<td>12.0 cr.</td>
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<tr>
<td></td>
<td>Review General Principles: Current pharmacology for the medical management of pain, infection, &amp; selected systemic diseases; &amp; adverse drug events. Based on the 200 drugs dispensed by US community pharmacies for prevention, diagnosis, and treatment of disease, special reference/dent. Requisite: Department Consent Required</td>
<td></td>
</tr>
<tr>
<td>DPER 7219</td>
<td>Dental and Medical Emergency Management</td>
<td>0.5 cr.</td>
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<tr>
<td></td>
<td>This is a pragmatic course to familiarize the resident with dental and medical emergencies that may present during patient care. Major texts on medical emergency management and the medically compromised patient are used as a guideline. Department consent required</td>
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<tr>
<td>DPER 8106</td>
<td>Anesthesiology</td>
<td>1.3 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DPER 8120</td>
<td>Head and Neck Anatomy</td>
<td>1.0 cr.</td>
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<tr>
<td></td>
<td>This postdoctoral course is an advanced study of head and neck anatomy as it relates to periodontal patient care.</td>
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</tbody>
</table>

First Year, Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DSGD 5205</td>
<td>Research Methodology &amp; Biostatistics 2</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td></td>
<td>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</td>
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</tr>
<tr>
<td>DPER 7300</td>
<td>Periodontics Specialty Clinic 3</td>
<td>2.0 cr.</td>
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<tr>
<td></td>
<td>Prereq: DPER 7100, DPER 7200</td>
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<tr>
<td></td>
<td>In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.</td>
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<tr>
<td>DPER 7301</td>
<td>Peridontics Current Literature 1B</td>
<td>0.5 cr.</td>
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<td></td>
<td>Prereq: DPER 7201</td>
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<tr>
<td></td>
<td>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)</td>
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<tr>
<td>DPER 7303</td>
<td>Periodontal Literature Review Seminar 2</td>
<td>6.0 cr.</td>
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<tr>
<td></td>
<td>Prereq: DPER 7203</td>
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<tr>
<td></td>
<td>In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.</td>
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<tr>
<td>DPER 7304</td>
<td>Periodontal Case Presentations Seminar 1B</td>
<td>1.0 cr.</td>
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<tr>
<td></td>
<td>Prereq: DPER 7204</td>
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<tr>
<td></td>
<td>In this postdoctoral course, residents prepare and present a complete 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)</td>
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<tr>
<td>DPER 7305</td>
<td>Periodontal Research 1</td>
<td>1.5 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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<td>Course Code</td>
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<tr>
<td>DPER 7308</td>
<td>Financial and Practice Management 1</td>
<td>0.6 cr.</td>
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<tr>
<td>DPER 7315</td>
<td>Interdisciplinary Course 1C</td>
<td>3.0 cr.</td>
</tr>
<tr>
<td>DPER 7316</td>
<td>Pharmacology II</td>
<td>12.0 cr.</td>
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<tr>
<td>DPER 7317</td>
<td>Implant Provisionalization</td>
<td>20.0 cr.</td>
</tr>
<tr>
<td>DSGD 5331</td>
<td>Diagnosis and Treatment of Craniofacial Pain</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DSGD 5341</td>
<td>Fundamentals of Teaching/Communication</td>
<td>0.7 cr.</td>
</tr>
<tr>
<td>DSGD 5344</td>
<td>Advanced Radiology and Radiographic Interpretation</td>
<td>1.5 cr.</td>
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<tr>
<td>DPER 8100</td>
<td>Periodontics Specialty Clinic 4</td>
<td>1.0 cr.</td>
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<tr>
<td>DPER 8101</td>
<td>Periodontal Current Literature 2</td>
<td>1.10 cr.</td>
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<tr>
<td>DPER 8102</td>
<td>Periodontal Literature Seminar 2</td>
<td>1.10 cr.</td>
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<tr>
<td>DPER 8105</td>
<td>Periodontal Research 2</td>
<td>1.0 cr.</td>
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<tr>
<td>DPER 8115</td>
<td>Interdisciplinary Course 2A</td>
<td>1.0 cr.</td>
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<tr>
<td>DPER 8200</td>
<td>Periodontics Specialty Clinic 5</td>
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<tr>
<td>DPER 8201</td>
<td>Periodontal Current Literature 2A</td>
<td>0.7 cr.</td>
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<tr>
<td>DPER 8203</td>
<td>Periodontal Literature Review Seminar 3</td>
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**Second Year, Summer Semester**

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<tr>
<td>DPER 8100</td>
<td>Periodontics Specialty Clinic 4</td>
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<tr>
<td>DPER 8101</td>
<td>Periodontal Current Literature 2</td>
<td>1.10 cr.</td>
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<tr>
<td>DPER 8102</td>
<td>Periodontal Literature Seminar 2</td>
<td>1.10 cr.</td>
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<tr>
<td>DPER 8105</td>
<td>Periodontal Research 2</td>
<td>1.0 cr.</td>
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<tr>
<td>DPER 8115</td>
<td>Interdisciplinary Course 2A</td>
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**Second Year, Fall Semester**

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<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<td>DPER 8200</td>
<td>Periodontics Specialty Clinic 5</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DPER 8201</td>
<td>Periodontal Current Literature 2A</td>
<td>0.7 cr.</td>
</tr>
<tr>
<td>DPER 8203</td>
<td>Periodontal Literature Review Seminar 3</td>
<td>1.7 cr.</td>
</tr>
</tbody>
</table>
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 8215 Interdisciplinary Course 2B 1.75 cr.
Seminar includes residents from GPR and Graduate Periodontics and GPR, periodontics, and prosthodontics faculty to share clinically relevant multidisciplinary information. Patient diagnostic evaluations and treatment plans are evaluated in an interactive environment. Topics involving new advancements are presented and discussed. Department consent required.

DPER 8216 Pharmacology III 12.0 cr.
Review General Principles: Current pharmacology for the medical management of pain, infection, & selected systemic diseases; & adverse drug events. Based on top 200 drugs dispensed by US community pharmacies for prevention, diagnosis, and treatment of disease, reference/dent. Prerequisite: Department Consent Required

DPER 8219 Dental and Medical Emergency Management 0.5 cr.
This is a pragmatic course to familiarize the resident with dental and medical emergencies that may present during patient care. Major texts on medical emergency management and the medically compromised patient are used as a guideline. Department consent required

DPER 8221 Implants in the Orthodontic Patient 1.0 cr.
This postdoctoral course is an in-depth study of the use of implants in patients both for restorative dentistry and as an orthodontic anchorage.

DPER 8222 Periodontic/Orthodontic Treatment 1.0 cr.
This postdoctoral course is a study of the interdisciplinary care of the patient with periodontal and orthodontic needs and includes a review of the literature in conjunction with a periodontist and orthodontist.

Second Year, Spring Semester

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

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 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**
- Prereq: DPER 7305, DPER 8105, DPER 8205
- 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 8306 Periodontics Clinical Teaching 1B**
- Prereq: DPER 8206
- 1.5 cr.
  - 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 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 8315 Interdisciplinary Course 2C**
- 3.0 cr.
  - Seminar includes residents from GPR and Graduate Periodontics and GPR, periodontics, and prosthodontics faculty to share clinically relevant multidisciplinary information. Patient diagnostic evaluations and treatment plans are evaluated in an interactive environment. Topics involving new advancements are presented and discussed. Department consent required.

**DPER 8316 Pharmacology IV**
- 12.0 cr.
  - Review General Principles: Current pharmacology for the medical management of pain, infection, & selected systemic diseases; & adverse drug events. Based on top 200 drugs dispensed by US community pharmacies for prevention, diagnosis, and treatment of disease, reference/dent. Prerequisite: Department Consent Required.

**DPER 8317 Advanced Oral & Maxillofacial Pathology for Periodontics**
- 20.0 cr.
  - This course is designed to prepare residents to recognize, analyze, & appreciate primary/secondary disease conditions of the oral & paraoral regions. Reflects an emphasis on the understanding of basic & fundamental biologic aberrations and an integration of these concepts into a meaningful approach to diagnostic pathology. Department Consent Required

### Third Year, Summer Semester

**DSGD 7311 Scientific Writing & 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.

**DPER 9015 Interdisciplinary Course 3A**
- 1.0 cr.
  - Seminar includes residents from GPR and Graduate Periodontics and GPR, periodontics, and prosthodontics faculty to share clinically relevant multidisciplinary information. Patient diagnostic evaluations and treatment plans are evaluated in an interactive environment. Topics involving new advancements are presented and discussed. Department consent required.

**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 9101 Periodontal Current Literature 3A**
- 2.0 cr.
  - In this postdoctoral seminar course, relevant reading in the periodontal literature relating to specific topics are assigned and critically discussed.

**DPER 9102 Periodontal Literature Review Seminar 5**
- 6.0 cr.
  - In this postdoctoral seminar course, relevant reading in the periodontal literature relating to specific topics are assigned and critically discussed.

**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)*

### Third Year, Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DPER 9200</td>
<td>Periodontics Specialty Clinic</td>
<td>8.0 cr.</td>
</tr>
<tr>
<td>DPER 9201</td>
<td>Periodontal Journal Club</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>DPER 9203</td>
<td>Periodontal Literature Review Seminar</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>DPER 9204</td>
<td>Periodontal Case Presentations Seminar</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DPER 9205</td>
<td>Periodontal Research</td>
<td>2.0 cr.</td>
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<tr>
<td>DPER 9206</td>
<td>Periodontics Clinical Teaching</td>
<td>6.0 cr.</td>
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<td>DPER 9215</td>
<td>Interdisciplinary Course</td>
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<tr>
<td>DPER 9216</td>
<td>Pharmacology V</td>
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<tr>
<td>DPER 9219</td>
<td>Dental and Medical Emergency Management</td>
<td>0.5 cr.</td>
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### Third Year, Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DPER 9300</td>
<td>Periodontics Specialty Clinic</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DPER 9301</td>
<td>Periodontal Journal Club</td>
<td>0.5 cr.</td>
</tr>
<tr>
<td>DPER 9303</td>
<td>Periodontal Literature Review Seminar</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DPER 9304</td>
<td>Periodontal Case Presentations Seminar</td>
<td>1.0 cr.</td>
</tr>
</tbody>
</table>
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 9308 Financial and Practice Management 3 0.6 cr.
This course provides the periodontal resident with the information needed for successful personal financial and practice management. Curriculum will rotate over a three year cycle to include personal financial management, human resources, accounting, legal, and dental practice management. Department Consent Required.

DPER 9315 Interdisciplinary Course 3C 3.0 cr.
Seminar includes residents from GPR and Graduate Periodontics and GPR, periodontics, and prosthodontics faculty to share clinically relevant multidisciplinary information. Patient diagnostic evaluations and treatment plans are evaluated in an interactive environment. Topics involving new advancements are presented and discussed. Department consent required.

DPER 9316 Pharmacology VI 12.0 cr.
Review General Principles: Current pharmacology for the medical management of pain, infection, & selected systemic diseases, & adverse drug events. Based on top 200 drugs dispensed by US community pharmacies for prevention, diagnosis, and treatment of disease, reference/dent. Prerequisite: Department Consent Required

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

DSGD 5311 Scientific Writing and Evaluation 1.5 cr.
This graduate course in dentistry is an in-depth study of scientific writing to prepare the student to evaluate the literature as well as to prepare a scientific manuscript for publication.

DSGD 5331 Diagnosis and Treatment of Craniofacial Pain 1.5 cr.
This graduate course in dentistry studies the structure and function of the cranio-cervical region and stomatognathic system. Diagnosis and management of abnormal function will be emphasized relative to each specific specialty area.

DSGD 5341 Fundamentals of Teaching / Communication 0.7 cr.
This graduate course in dentistry prepares students to communicate effectively with patients and their families to enhance treatment planning dialogues, facilitate case presentation and acceptance, and encourage behavioral changes toward attaining and maintaining systemic and oral health.

DSGD 5344 Advanced Radiology and Radiographic Interpretation 1.5 cr.
This graduate course in dentistry in oral and maxillofacial radiology includes lectures and case studies in radiation physics, radiation biology, radiation hygiene and radiographic techniques. In addition, this course will provide information on advanced imaging modalities and interpretative skills.

DSGD 6114 Advanced Oral Biology 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>DSOR 5101</td>
<td>Orthodontics 101 – Boot Camp</td>
<td>4.3 cr.</td>
</tr>
<tr>
<td>DSOR 5102</td>
<td>Dentofacial Growth and Development 1</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DSOR 5103</td>
<td>Diagnosis and Treatment Planning 1</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DSOR 5104</td>
<td>Biomechanics 1</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>DSOR 5105</td>
<td>Research Methodology and Biostatistics 1</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DSOR 5107</td>
<td>Treatment Planning 1</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>DSOR 5108</td>
<td>Current Literature Review 1</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DSOR 5111</td>
<td>History of Orthodontics &amp; Dentofacial Orthopedics</td>
<td>1.0 cr.</td>
</tr>
<tr>
<td>DSOR 5841</td>
<td>Research 1</td>
<td>0.4 cr.</td>
</tr>
<tr>
<td>DSOR 5931</td>
<td>Clinical Orthodontics 1</td>
<td>7.8 cr.</td>
</tr>
</tbody>
</table>

**FIRST YEAR, Spring Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>DSOR 5201</td>
<td>Pathology/Microanatomy</td>
<td>1.2 cr.</td>
</tr>
<tr>
<td>DSOR 5202</td>
<td>Dentofacial Growth and Development 2</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td>DSOR 5203</td>
<td>Diagnosis and Treatment Planning 2</td>
<td>2.5 cr.</td>
</tr>
</tbody>
</table>

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.

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.

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.
interpretation as used in orthodontic diagnosis and treatment planning.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DSOR 5204 Biomechanics 2</td>
<td>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.</td>
<td>5.0 cr.</td>
</tr>
<tr>
<td>DSOR 5205 Research Methodology &amp; Biostatistics 2</td>
<td>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.</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td>DSOR 5207 Treatment Planning 2</td>
<td>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.</td>
<td>5.0 cr.</td>
</tr>
<tr>
<td>DSOR 5208 Current Literature Review 2</td>
<td>This post-doctoral 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.</td>
<td>1.3 cr.</td>
</tr>
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</table>

**FIRST YEAR, Summer Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSOR 5211 Treatment in Preadolescent Children</td>
<td>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.</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DSOR 5842 Research 2</td>
<td>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.</td>
<td>0.8 cr.</td>
</tr>
<tr>
<td>DSOR 5932 Clinical Orthodontics 2</td>
<td>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.</td>
<td>9.5 cr.</td>
</tr>
<tr>
<td>DSOR 5301 Head and Neck Anatomy</td>
<td>This post-doctoral course is an advanced study of head and neck anatomy as it relates to orthodontic patient care.</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DSOR 5304 Biomechanics 3</td>
<td>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.</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DSOR 5306 Dento/Craniofac Anomalie</td>
<td>0.7 cr.</td>
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<tr>
<td>DSOR 5307 Treatment Planning 3</td>
<td>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.</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td>DSOR 5311 Scientific Writing and Evaluation</td>
<td>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.</td>
<td>1.5 cr.</td>
</tr>
<tr>
<td>DSOR 5321 Orthognathic Surgical Treatment</td>
<td>This post-doctoral course is a study of the orthognathic surgical options and treatment of patients, including distraction osteogenesis and other advances in surgical techniques.</td>
<td>2.5 cr.</td>
</tr>
<tr>
<td>DSOR 5843 Research 3</td>
<td>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.</td>
<td>1.7 cr.</td>
</tr>
</tbody>
</table>
topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 5933 Clinical Orthodontics 3** 5.5 cr.
Prereq: DSOR5931, DSOR5932
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**DSOR 6101 Implants in the Orthodontic Patient** 1.0 cr.
This post-doctoral course is an in-depth study of the use of implants in patients both for restorative dentistry and as orthodontic anchorage.

**DSOR 6107 Treatment Planning 4** 4.0 cr.
Prereq: DSOR5107, DSOR5207, DSOR5307
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Postdoctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

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**SECOND YEAR, Fall Semester**

**DSOR 6106 Dento-/Craniofacial Anomalies 4** 1.1 cr.
This post-doctoral course is a study of dental and craniofacial anomalies and the orthodontic and surgical treatment of the patients. This includes both seminar, case based, and case presentation study.

**DSOR 6108 Current Literature Review 4** 1.0 cr.
Prereq: DSOR5108, DSOR5208, DSOR5308
Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

**DSOR 6111 Periodontic/Orthodontic Treatment** 1.0 cr.
This post-doctoral course is a study of the interdisciplinary care of the patient with periodontal and orthodontic needs and includes a review of the literature in conjunction with a periodontist.

**DSOR 6844 Research 4** 2.2 cr.
Prereq: DSOR5841, DSOR5842, DSOR5843
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 6934 Clinical Orthodontics IV Fall** 9.9 cr.
Prereq: DSOR5931, DSOR5932, DSOR5933
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

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**SECOND YEAR, Spring Semester**

**DSOR 6201 Ethics, Practice Management, Jurisprudence** 2.5 cr.
This post-doctoral course is an in-depth study of ethics, managing a practice and jurisprudence as it relates to the clinical practice of orthodontics.

**DSOR 6206 Dento-/Craniofacial Anomalies** 1.1 cr.
Prereq: DSOR5106, DSOR5206, DSOR5306, DSOR6106
This post-doctoral course is a study of dental and craniofacial anomalies and the orthodontic and surgical treatment of patients. This includes both seminars, case-based and case-presentation study.

**DSOR 6207 Treatment Planning 5** 5.0 cr.
Prereq: DSOR5107, DSOR5207, DSOR5307, DSOR6107
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 6208 Current Literature Review 5** 1.3 cr.
Prereq: DSOR5108, DSOR5208, DSOR 5308, DSOR 6108
Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

**DSOR 6845 Research 5** 2.4 cr.
Prereq: DSOR5841, DSOR5842, DSOR5843, DSOR6844
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 6935 Clinical Orthodontics 5**
Prereq: DSOR5931, DSOR5932, DSOR5933, DSOR6934
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**DSOR 6936 Review for American Board Examination**
1.2 cr.
This postgraduate course in dentistry is an advanced review course in published orthodontic research studies and techniques in preparation for taking the written portion of the American Board of Orthodontics written examination. Restrictions: Successful completion of Year 1 of the postgraduate Program in Orthodontics.

**DSOR 7307 Treatment Planning VIII**
2.0 cr.
This postgraduate course in dentistry is an advanced course studying orthodontic treatment diagnosis, treatment planning and treatment results.

**DSOR 7312 Orthodontic Clinical Teaching 3**
0.3 cr.
This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the pre-doctoral dental student.

**DSOR 7846 Research VIII**
0.6 cr.
Postgraduate course study requiring student to select research topic, define research question, do literature search on the topic, organize research project, carry out project, collect and analyze the results and write a publishable manuscript on the project.

**DSOR 7934 Clinical Orthodontic VIII**
4.7 cr.
This postgraduate course involves the advanced treatment orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**THIRD YEAR, Summer Semester**

**DSOR 7107 Treatment Planning 6**
2.2 cr.
Prereq: DSOR5107, DSOR5207, DSOR5307, DSOR6107, DSOR6207
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 7112 Orthodontic Clinical Teaching 2**
0.9 cr.
This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the pre-doctoral dental student.

**DSOR 7108 Current Literature Review 6**
0.7 cr.
Prereq: DSOR5108, 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: DSOR5931, DSOR5932, DSOR5933, DSOR6934, DSOR6935
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**DSOR 7938 Clinical Problems 1**
0.7 cr.
Course is a case-based course to study clinical problems encountered in the practice of orthodontics by the orthodontic specialist. It requires the student to analyze and then present the records of patients who encountered less than ideal results during treatment.

**THIRD YEAR, Fall Semester**

**DSOR 7207 Treatment Planning 7**
4.0 cr.
Prereq: DSOR5107, DSOR5207, DSOR5307, DSOR6107, DSOR6207, DSOR7107
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.
<table>
<thead>
<tr>
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<tr>
<td>DSOR 7208</td>
<td>Current Literature Review 7</td>
<td>1.0 cr.</td>
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<tr>
<td></td>
<td>Prereq: DSOR5108, DSOR5208, DSOR 5308, DSOR 6108, DSOR 6208, DSOR 7108</td>
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</tr>
<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DSOR 7209</td>
<td>Orthodontic Predoctoral Laboratory Teaching 2</td>
<td>0.3 cr.</td>
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<td></td>
<td>This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.</td>
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<tr>
<td>DSOR 7212</td>
<td>Orthodontic Clinical Teaching 3</td>
<td>1.1 cr.</td>
</tr>
<tr>
<td></td>
<td>This post-doctoral course requires the student to teach basic orthodontic diagnostic and treatment techniques to the predoctoral dental student.</td>
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<tr>
<td>DSOR 7300</td>
<td>Current Literature Review VIII</td>
<td>0.5 cr.</td>
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<tr>
<td></td>
<td>This postgraduate course in dentistry is an advanced course studying orthodontic literature, concentrating on evidence based orthodontic treatment.</td>
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<tr>
<td>DSOR 7847</td>
<td>Research 7</td>
<td>1.7 cr.</td>
</tr>
<tr>
<td></td>
<td>Prereq: DSOR5841, DSOR5842, DSOR5843, DSOR6844, DSOR6845, DSOR7846</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DSOR 7937</td>
<td>Clinical Orthodontics 7</td>
<td>9.9 cr.</td>
</tr>
<tr>
<td></td>
<td>Prereq: DSOR5931, DSOR5932, DSOR5933, DSOR6934, DSOR6935, DSOR 7936</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DSOR 7939</td>
<td>Clinical Problems 2</td>
<td>1.0 cr.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DSOR 7940</td>
<td>Orthodontic Retention I</td>
<td>3.0 cr.</td>
</tr>
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<td></td>
<td>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.</td>
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<tr>
<td>DSOR 7941</td>
<td>Orthodontic Retention II</td>
<td>2.0 cr.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
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