FIRST YEAR FALL SEMESTER

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

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

**DSBS 5500 Craniofacial Biology**  
Variable 0.1-5.0 cr.  
Deals with the chemical basis of biological organization and function. Emphasis is given to topics most directly relevant to oral health and disease.

**DSBS 5502 Microanatomy**  
Variable 0.1-5.0 cr.  
This course will cover the structure and function of cells and tissues and progress to study the normal structural features of the organs of the body, as the basis for understanding pathologic conditions and disturbances of function.

**DSBS 5504 Human Anatomy**  
Variable 0.1-10.0 cr.  
Dental Anatomy covers the gross- and neuro-anatomy of the back, upper extremity, thorax, abdomen, and head and neck, and the embryology of the head and neck. Students will dissect cadavers and study computer generated cross-sections and reconstructions.

**DSBS 5506 Oral Histology**  
Variable 0.1-5.0 cr.  
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**  
Variable 0.1-5.0 cr.  
To introduce the beginning dental students to the program with an overview of dental concepts and procedures.

**DSRE 5500 Dental AnatomyMorphology**  
Variable 0.1-5.0 cr.  
Anatomical characteristics of the primary and permanent teeth in the human dentition, intra-arch relationships are considered in detail.

**DSRE 5501 Dental AnatomyMorphology Laboratory**  
Variable 0.1-5.0 cr.  
Waxing full crowns of each tooth type to correct anatomical form, emphasizing intra-arch relationships.

**DSRE 5504 Dental Materials Science 1**  
Variable 0.1-5.0 cr.  
Basic information about materials science includes physical, chemical, mechanical, and biological properties. This information provides the background for the study of specific materials used in dentistry.

**DSRE 5544 Cariology 1**  
Variable 0.1-5.0 cr.  
The course is intended to provide the basic science information about cariogenicity of plaque, caries etiology, nutrition, microbiological basis, patterns of progression and its relation to design for surgical treatment.

**IPED5001**  
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**  
Variable 0.1-5.0 cr.

**DSBS 5503 Microbiology**  
Variable 0.1-5.0 cr.  
This course will review basic principles of general microbiology and present fundamentals of medical microbiology relevant to microorganisms of the oral cavity and sources of systemic infections with oral manifestations.

**DSBS 5505 Immunology**  
Variable 0.1-5.0 cr.  
Basic information about the immune system; how it functions in the maintenance of health and how it can cause tissue injury.

**DSBS 5508 Physiology**  
Variable 0.1-5.0 cr.  
Deals with fundamentals of human physiology from basic cellular processes, such as membrane transport, to the organization and control of organ systems.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DSBS 5514</td>
<td>General Pathology</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSDD 5500</td>
<td>Infection Control</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSOP 5504</td>
<td>Principles of Operative Dentistry Direct Restoration 1</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSOP 5505</td>
<td>Principles of Operative Dentistry Direct Restoration 1 Lab</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSRE 5506</td>
<td>Occlusion 1</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSRE 5507</td>
<td>Occlusion 1 Laboratory</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>IPED5002</td>
<td>Interprofessional Education and Development I</td>
<td>1.0 cr.</td>
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</tbody>
</table>

**FIRST YEAR, Summer Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>DSAD 5877</td>
<td>Independent Study</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSBS 5516</td>
<td>Organ Pathology</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSOD 5500</td>
<td>Health Data Collection 1</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSOP 5506</td>
<td>Principles of Operative Dentistry Direct Restoration 2</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSOP 5507</td>
<td>Principles of Operative Dentistry Direct Restoration 2 Lab</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSPE 5500</td>
<td>Periodontics 1</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSRE 5508</td>
<td>Indirect Single Tooth Restoration 1</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
</tbody>
</table>

**SECOND YEAR, Fall Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DSAD 6622</td>
<td>Managing Your Student Practice</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSAD 6855</td>
<td>Independent Study</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSBS 6600</td>
<td>Pharmacology</td>
<td>Variable 0.1-10.0 cr.</td>
</tr>
</tbody>
</table>

Intensive study of drugs used in dental practice with emphasis on the basic principles of drug action. Lectures
DSEL 9101 Spanish Study Abroad Dental Elective  Variable 0.10-5.0 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.

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
Axiom 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.

**DSFD 6610 Fixed Prosthodontics**  
Variable 0.1-5.0 cr.  
Advanced pre-clinical lecture course. Ceramic restorations are included with discussion of pontic design and manipulation of gold solder. Dowel-core fabrication for endodontically treated teeth is covered. Clinical application is stressed and study of diagnosis and treatment planning is expanded.

**DSFD 6611 Fixed Prosthodontics Laboratory**  
Variable 0.1-5.0 cr.  
Continuation of Fixed Prosthodontics with emphasis on ceramic restorations and the procedures involved in fabricating fixed bridges in the anterior of appearance zone. Restorations include direct pattern fabrication of dowel-cores to build up badly broken-down or fractured teeth.

**DSOD 6602 Oral Radiology**  
Variable 0.1-5.0 cr.  
Designed to introduce the students to basic radiology and to provide them with the necessary practical skills in preparation for clinical dentistry.

**DSOD 6603 Oral Radiology Laboratory**  
Variable 0.1-5.0 cr.  
The laboratory is designed to provide students with the necessary practical skills in preparation for clinical dentistry.

**DSON 6612 Oral Pathology 2**  
Variable 0.1-5.0 cr.  
This course is a continuation of Oral Pathology 1.

**DSPD 6620 Pediatric Dentistry 1**  
Variable 0.1-5.0 cr.  
Basic principles of clinical diagnosis and treatment of the child patient are introduced. Developmental aspects of the formation of the craniofacial complex are applied to clinical management of space maintenance, pulpal, restorative, and behavior management problems.

**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.

**DSPE 6610 Periodontics 3**  
Variable 0.1-5.0 cr.  
Course is devoted to making the student familiar with the surgical management of periodontal disease. The indications and rationale for resection, reconstructive and mucogingival procedures are discussed.

**DSRE 6601 Transition Clinic 2**  
Variable 0.1-5.0 cr.  
This course will provide second year dental students with method and techniques for diagnosis, treatment planning, and record keeping for general dental practice and will also serve as a platform to train students in the correct use of Axiom software. Second year dental students will begin to see patients for simple oral diagnosis appointments, periodic oral evaluations, and basic operative procedures. Students will be paired throughout the Transition Clinic. While one student serves as the assistant, the other will act as the operator. Each student should have equal opportunity to act as both the assistant and the operator. Patients are scheduled by the patient care coordinators.

**DSRE 6608 Dental Materials Science 2**  
Variable 0.1-5.0 cr.  
Course introduces materials used in the practice of dentistry. Their chemistry, physical properties, and biological interaction are discussed as well as their advantages, disadvantages, and methods of clinical use.

**DSRE 6609 Treatment Planning**  
Variable 0.1-5.0 cr.  
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.

**DSRE 6612 Occlusion 2**  
Variable 0.1-5.0 cr.  
Theory and indications treating mandibular instability with splints and equilibration. The etiology, diagnosis and treatment of occlusal trauma and mandibular dysfunction are introduced.

**DSRE 6613 Occlusion 2 Laboratory**  
Variable 0.1-5.0 cr.  
The laboratory portion of this course includes fabrication of different splint types. It also introduces the principles of equilibration and applying these principles to models.

**DSRE 6644 Cariology 2**  
Variable 0.1-5.0 cr.  
The course provides didactic instruction and exercises in identifying caries, learning and evaluating detection methods. As well, the course will include identifying and correlating factors that contribute to caries, and developing programs for prevention and management to reduce identified factors.

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

**DSSD 6604 Pain Control 1 (Local Anesthesia)**  
Variable 0.1-5.0 cr.  
The anatomy of the nerve supply to the teeth and associated structures is covered. The techniques for administration of local anesthesia to the maxilla and mandible are demonstrated by the faculty and performed by the student.
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<tbody>
<tr>
<td>DSSD 6608</td>
<td>Prevention and Management of Medical Emergencies</td>
<td>0.1-5.0</td>
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<tr>
<td></td>
<td>The prevention, diagnosis, and management of medical</td>
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<tr>
<td></td>
<td>emergencies are presented</td>
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<tr>
<td>IPED 6001</td>
<td>Interprofessional Education and Development II</td>
<td>1.0 cr.</td>
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<tr>
<td></td>
<td>This course develops core competencies in teamwork</td>
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<td>by the application of that learning in through team-</td>
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<td>based activities.</td>
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<td>SECOND YEAR</td>
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<td>Summer Semester</td>
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</table>

### DSAD 6877 Independent Study
0.1-5.0 cr.

This 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 7713 Community Assessment
0.3 cr.

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

### DSEN 6610 Endodontics 1 and 2
Variable 0.1-5.0 cr.

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

### DSEN 6611 Endodontics 1 & 2 Lab
Variable 0.1-5.0 cr.

This is a laboratory course in basic endodontic techniques that utilizes simulated human teeth as models for providing clinical treatment.

### DSFD 6655 Clinical Fixed Prosthodontics
Variable 0.1-5.0 cr.

Clinical rotation in fixed prosthodontics.

### DSOD 6655 Clinical Oral Diagnosis
Variable 0.1-5.0 cr.

Clinical rotation in oral diagnosis.

### DSOP 6600 Pre-clinical Operative Dentistry Workshop
Variable 0.1-5.0 cr.

Practical restorative exercises in extracted natural teeth.

### DSOP 6610 Operative Dentistry Seminar 2
Variable 0.1-5.0 cr.

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

### DSOP 6655 Clinical Operative Dentistry
Variable 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 6630 Pediatric Dentistry 2
Variable 0.1-5.0 cr.

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

### DSPE 6655 Clinical Periodontics
Variable 0.1-5.0 cr.

Clinical rotation in periodontics.

### DSRE 6604 Esthetic Dentistry
Variable 0.1-5.0 cr.

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

### DSRE 6612 Occlusion 2
Variable 0.1-5.0 cr.

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

### DSRE 6613 Occlusion 2 Laboratory
Variable 0.1-5.0 cr.

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

### DSRE 6615 Comprehensive Patient Care Clinic A
Variable 0.1-5.0 cr.

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

### DSRP 6655 Clinical Removable Prosthodontics
Variable 0.1-5.0 cr.
Clinical rotation in removable prosthodontics.

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<thead>
<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>DSRE 6614</td>
<td>Dental Photography</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>DSSD 6610</td>
<td>Pain Control 2 (Nitrous Oxide Analgesia)</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>Pharmacological indications and contraindications and prevention and treatment of complications relating to use of nitrous oxide is presented.</td>
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</table>

**THIRD YEAR, Fall Semester**

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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>DSAD 7704</td>
<td>Community Health Education Practicum</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>This course will provide students with guidance in completing the following Applied Dentistry Competency: Plan and implement a community health education intervention.</td>
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<tr>
<td>DSAD 7705</td>
<td>Interprofessional Education Development</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>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.</td>
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</tr>
<tr>
<td>DSAD 7713</td>
<td>Community Assessment</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td></td>
<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>DSAD 7720</td>
<td>Behavioral, Geriatric, and Special Dentistry</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSAD 7722</td>
<td>Drawing Conclusions from Literature – Application</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>DSAD 7855</td>
<td>Independent Study</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSEL 9100</td>
<td>Advanced Readings in Pediatric Dentistry</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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</tr>
<tr>
<td>DSEL 9101</td>
<td>Spanish Study Abroad Dental Elective</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>DSEN 7755</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>
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<tr>
<td>DSFD 7755</td>
<td>Clinical Fixed Prosthetics</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>Clinical rotation in fixed prosthodontics.</td>
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<tr>
<td>DSOD 7711</td>
<td>Diagnosis and Treatment of Common Oral Lesions 1</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.</td>
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<tr>
<td>DSOD 7755</td>
<td>Clinical Oral Diagnosis</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>Clinical rotation in oral diagnosis.</td>
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<tr>
<td>DSOP 7755</td>
<td>Clinical Operative Dentistry</td>
<td>Variable 0.01-5.0 cr.</td>
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<tr>
<td></td>
<td>Clinical rotation in operative dentistry.</td>
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<tr>
<td>DSOS 7710</td>
<td>Oral and Maxillofacial Surgery</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<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 7700</td>
<td>Pediatric Dentistry 3</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>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.</td>
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</tbody>
</table>
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 7718 Critical Thinking and Patient Care Seminar Variable 0.1-5.0 cr.
This course will provide the student with a practical application of the practice of evidence-based dentistry, critical thinking, formulation of clinical questions, critical appraisal of the literature and the translation of the biologic and social sciences to clinical patient care.

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 .01-5.0 cr.
This course covers the diagnostic and treatment considerations for the management of the patient in pain and other emergency problems encountered in general dentistry. Independent study assigned by course director.

THIRD YEAR, Spring Semester

DSAD 7706 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 7796 Special Care Clinic A Variable 0.1-5.0 cr.
This course is designed to introduce dental student to provide dental treatment to the special needs population.

DSAD 866 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.

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<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tbody>
<tr>
<td>DSEN 7712</td>
<td>Endodontics</td>
<td>0.9 cr.</td>
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<tr>
<td></td>
<td>Course addresses topics of diagnosis and management of a variety of endodontic treatment problems such as periapical pathosis, traumatic injuries, surgical intervention, and bleeding.</td>
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<tr>
<td>DSEN 7757</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>
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<tr>
<td>DSFD 7757</td>
<td>Clinical Fixed Prosthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DSOD 7712</td>
<td>Diagnosis and Treatment of Common Oral Lesions 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DSOD 7724</td>
<td>Diagnostic Radiology</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DSEN 7775</td>
<td>Clinical Oral Diagnosis</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>Clinical rotation in oral diagnosis.</td>
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<tr>
<td>DSON 7755</td>
<td>Clinical Oncology</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>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</td>
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<tr>
<td>DSOP 7757</td>
<td>Clinical Operative Dentistry</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DSOT 7720</td>
<td>Orthodontics 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<td></td>
<td>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.</td>
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<tr>
<td>DSOT 7757</td>
<td>Clinical Orthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DSPE 7757</td>
<td>Clinical Periodontics</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DSRE 7719</td>
<td>Comprehensive Patient Care Clinic C</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>Comprehensive patient care activities with a focus on independence, student preparedness, technical skills, patient management and professionalism.</td>
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<tr>
<td>DSRE 7936</td>
<td>Treatment Planning and Case Presentation 2</td>
<td>Variable 0.1-5.0 cr.</td>
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<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>
<td>DSRP 7757</td>
<td>Clinical Removable Prosthodontics</td>
<td>Variable 0.1-5.0 cr.</td>
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<td>Clinical rotation in removable prosthodontics.</td>
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**THIRD YEAR, Summer Semester**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>DSAD 7791</td>
<td>Community-based Clinical Dentistry 1</td>
<td>Variable 0.1-5.0 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>DSAD 7797</td>
<td>Special Care Clinic B</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td></td>
<td>This course is designed to introduce dental students to provide dental treatment to the special needs population.</td>
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</tr>
<tr>
<td>DSAD 7877</td>
<td>Independent Study</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DSOT 9102</td>
<td>Trifinio Guatemala Dental Elective</td>
<td>Variable 0.1-5.0 cr.</td>
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</tbody>
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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.

### DSOD 7760 Clinical Oral Radiology
- **Variable 0.1-5.0 cr.**
- The purpose of this course is to provide student with experience in exposing radiographs and by completing written interpretations of all radiographs.

### DSEN 7759 Clinical Endodontics
- Clinical rotation in endodontics.

### DSFD 7759 Clinical Fixed Prosthodontics
- Clinical rotation in fixed prosthodontics.

### DSOD 7759 Clinical Oral Diagnosis
- Clinical rotation in oral diagnosis.

### DSOF 7759 Clinical Operative Dentistry
- Clinical rotation in operative dentistry.

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

### DSPE 7759 Clinical Periodontics
- Clinical rotation in periodontics.

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

### DSRE 7724 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.

### DSRP 7759 Clinical Removable Prosthodontics 1
- Clinical rotation in removable prosthodontics.

### FOURTH YEAR, Fall Semester

### DSAD 8892 Community-Based Clinical Dentistry 2
- **Variable 0.1-10.0 cr.**
- All students are required to complete assignments to practice in community-based sites of the ACTS program. The specific objectives of these clinical assignments vary according to the site assigned to each student. Sites include multi-disciplinary community health care centers, institution or hospital-based treatment centers, and private practices providing care to underserved communities.

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

### DSAD 8896 Special Care Clinic
- **Variable 0.1-5.0 cr.**
- This course is designed to introduce dental students to provide dental treatment to the special needs population.

### 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.

### DSEL 9102 Trifinio Guatemala Dental 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.

### DSEN 8855 Clinical Endodontics
- Clinical rotation in endodontics.

### DSFD 8855 Clinical Fixed Prosthodontics
- Clinical rotation in fixed prosthodontics.

### DSFD 8861 Advanced Implant Prosthodontics Seminar
- **Variable 0.1-5.0 cr.**
- A single unit full crown procedure on a patient is performed by the student with specific time restraints and evaluation criteria. The purpose of this is to demonstrate clinical proficiency in this specific technique.

### DSOD 8855 Clinical Oral Diagnosis
- Clinical rotation in oral diagnosis.
DSOP 8855 Clinical Operative Dentistry
Clinical rotation in operative dentistry.

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.

DSPE 8855 Clinical Periodontics
Clinical rotation in periodontics.

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.

DSRE 8817 Comprehensive Patient Care Clinic E
Advanced comprehensive patient care including applied principles of practice management.

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.

DSRP 8855 Clinical Removable Prosthodontics 2
Clinical rotation in removable prosthodontics.

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.

FOURTH YEAR, Spring Semester

DSAD 8812 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.

DSAD 8822 Practice Management
Primary focus is on financial records, billing and collections, professional insurance, fees, clinical records, third party relations, case presentation, practice analysis, dental practice marketing, and personnel management.

DSAD 8866 Independent Study

DSAD 8890 Integrated Care Clinical Dentistry
All students are required to complete assignments to practice in sites of the ACTS Program that provide experience in treatment of medically compromised, disabled, or geriatric special needs patients. These clinical assignments emphasize the multidisciplinary management of complex patients within the broad context of medical care. Sites include multidisciplinary institution or hospital-based treatment centers.

DSAD 8893 Community-Based Clinical Dentistry 3
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.

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.

DSEN 8810 Endodontics 4
This is an advanced course in endodontics clinical practice. Endodontic implants, autogenous transplants, advanced surgical concepts and controversies will be included.

DSEN 8757 Clinical Endodontics
Clinical rotation in endodontics.

DSFD 8757 Clinical Fixed Prosthodontics
Clinical rotation in fixed prosthodontics.

DSOD 8820 Forensic Dentistry
Introductory concepts and techniques in forensic dentistry are presented and discussed.

DSOD 8757 Clinical Oral Diagnosis
Variable 0.1-5.0 cr.
Clinical rotation in oral diagnosis.

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<tbody>
<tr>
<td>DSOP 8757</td>
<td>Clinical Operative Dentistry</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSPE 8757</td>
<td>Clinical Periodontics</td>
<td>Variable 0.1-5.0 cr.</td>
</tr>
<tr>
<td>DSRE 8810</td>
<td>Restorative Dentistry Advanced Clinical Training Service Seminar</td>
<td>Variable 0.1-5.0 cr.</td>
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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.

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<tbody>
<tr>
<td>DSRE 8827</td>
<td>Comprehensive Patient Care Clinic F</td>
<td>Variable 0.1-13.0 cr.</td>
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<tr>
<td>DSRE 8946</td>
<td>Treatment Planning and Case Presentation</td>
<td>Variable 0.1-5.0 cr.</td>
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</tbody>
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Treatment planning concepts and presentation formats, focused on multidisciplinary approach, key tooth analysis, phased treatment plans and case presentation format and technique.

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<tbody>
<tr>
<td>DSRE 8837</td>
<td>Comprehensive Patient Care Clinic G</td>
<td>Variable 0.01-15.0 cr.</td>
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</table>

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

FOURTH YEAR, Summer Semester (as needed)

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<tr>
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<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>
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</table>

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.

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<tbody>
<tr>
<td>DSRE 8837</td>
<td>Comprehensive Patient Care Clinic G</td>
<td>Variable 0.01-15.0 cr.</td>
</tr>
</tbody>
</table>

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

FOURTH YEAR, Fall Semester (as needed)

DENTAL INTERNATIONAL STUDENT PROGRAM
(The Dental curriculum is subject to change without notice.)

FIRST YEAR, Spring Semester

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<tr>
<th>Course Code</th>
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<tr>
<td>DISP 7100</td>
<td>Restorative Preclinical Simulation</td>
<td>Variable 0.1-5.0 cr.</td>
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This seminar-based course introduces the student to an overview of contemporary restorative procedures in a simulated clinical environment.

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<th>Credits</th>
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<tbody>
<tr>
<td>DISP 7101</td>
<td>Restorative Preclinical Simulation Lab</td>
<td>Variable 0.1-5.0 cr.</td>
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</table>

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

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<tr>
<td>DISP 7102</td>
<td>Occlusion</td>
<td>Variable 0.1-5.0 cr.</td>
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Course covering principles of intra and inter-oral relationships. Course will also cover diagnosis and treatment regarding the occlusion relationship.

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<tbody>
<tr>
<td>DISP 7103</td>
<td>Occlusion Lab</td>
<td>Variable 0.1-5.0 cr.</td>
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The laboratory portion of this course includes fabrication of different splint types. It also introduces principles of equilibration and applying these principles to models.

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<tr>
<td>DISP 7104</td>
<td>Independent Student</td>
<td>Variable 0.1-5.0 cr.</td>
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<tr>
<td>DISP 7105</td>
<td>Dental Materials</td>
<td>Variable 0.1-5.0 cr.</td>
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This course will highlight contemporary dental materials and address their chemical composition and clinical application.

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<td>DISP 7106</td>
<td>Clinical Practice Ethics</td>
<td>Variable 0.1-5.0 cr.</td>
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Case-based ethics discussion.

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<tr>
<td>DISP 7112</td>
<td>Cariology</td>
<td>Variable 0.1-5.0 cr.</td>
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</tbody>
</table>
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.

DISP 7126 Prevention and Management of Medical Emergencies Variable 0.1-5.0 cr.
The prevention, diagnosis, and management of medical emergencies are presented.

DISP 7127 Oral Radiology Variable 0.1-5.0 cr.
Designed to introduce the students to basic radiology and to provide them with the necessary practical skills in preparation for clinical dentistry.

DISP 7128 Oral Radiology Lab Variable 0.1-5.0 cr.
The laboratory is designed to provide students with the necessary practical skills in preparation for clinical dentistry.

DISP 7130 Diagnostic Radiology Variable 0.1-5.0 cr.
Basic concepts and interpretative principles for panoramic radiography, TMJ radiography, sialography, xeroradiography, and extraoral views will be presented. Additionally, advanced imaging modalities that have been made available to assist in radiologic diagnoses in dentistry will be introduced.

DISP 7140 Pediatric Dentistry 1 Variable 0.1-5.0 cr.
Basic principles of clinical diagnosis and treatment of the child patient are introduced. Developmental aspects of the formation of the craniofacial complex are applied to clinical management of space maintenance, pupal, restorative, and behavior management problems.

DISP 7160 Managing Your Student Practice Variable 0.1-5.0 cr.
Course provides student with knowledge/skills necessary to make the transition from pre-clinic to clinical patient. Competencies established in infection control, documentation, record keeping, patient management, medico--legal/ethical implications, professionalism, organization skills, communication skills, auxiliary utilization, and equipment/instrument utilization.

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

DISP 7321 Periodontics 3 Variable 0.1-5.0 cr.
This course is devoted to making the student familiar with the surgical management of periodontal disease. The indications and rationale for resection, reconstructive and mucogingival procedures are discussed.

FIRST YEAR, Summer Semester
DISP 7113 Complete and Removable Prosthodontics Variable 0.1-5.0 cr.

DISP 7114 Complete and Removable Prosthodontics Lab Variable 0.1-5.0 cr.

DISP 7119 Communication and Behavior Change Variable 0.1-5.0 cr.
This interactive course focuses on communication skills for enhanced treatment planning dialogues and to facilitate behavior changes toward systemic and oral health. Professionalism, ethics and the patient-centered approach are emphasized within a humanistic culture in oral health care settings.

DISP 7121 Endodontics 1 & 2 Variable 0.1-5.0 cr.
Course is an introduction to basic endodontics therapy. The philosophy of endodontics treatment and therapeutic techniques is discussed. Mechanisms of inflammation and repair are related to decisions in clinical practice.

DISP 7201 Independent Study Variable 0.1-5.0 cr.

DISP 7202 Case Presentation 1 Variable 0.1-5.0 cr.
Patient care with development of treatment plan through presentation by student to students and faculty.

DISP 7203 Fixed Prosthodontics Variable 0.1-5.0 cr.
An advanced preclinical lecture course covering ceramic restorations along with discussion of pontic design and manipulation of gold solder. Dowel-core fabrication for endodontically treated teeth is covered. Clinical application is stressed and study of diagnosis and treatment planning is expanded.

DISP 7204 Fixed Prosthodontics Laboratory Variable 0.1-5.0 cr.
Emphasis on ceramic restorations and procedures involved in fabricating fixed bridges in the anterior of appearance zone. Restorations include direct pattern fabrication of dowel-cores to building up badly broken-down or fractured teeth.

DISP 7205 Comprehensive Patient Care Clinic A Variable 0.1-5.0 cr.
An introductory clinic for students providing comprehensive dental care refining technical skills, learning patient management skills in a large group practice setting.

DISP 7206 Clinical Restorative Variable 0.1-5.0 cr.
Combines clinical experience with diagnosis, treatment planning, restorative treatment. Students assigned a fully dentated/partially/fully edentulous patient needing restorative procedures. Restorative materials include amalgam, cast gold, and tooth-colored composite resins/porcelain. Emphasis on fabrication of restorations that function adequately.

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

DISP 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 Variable 0.1-5.0 cr.
Clinical rotation in periodontics

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 Variable 0.1-5.0 cr.
Clinical rotation in oral diagnosis.

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 7320 Oral and Maxillofacial Surgery Variable 0.1-5.0 cr.
The diagnosis and treatment of oral and maxillofacial surgical problems including techniques for extraction of teeth alveoplasty, biopsy, management of infection, treatment of maxillary and mandibular fractures, and suturing techniques.
FIRST YEAR, Fall Semester

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 7000 Case Presentation 2
Presentations of actual treatment cases from the comprehensive patient care program are made by students and critiqued by the faculty.

DISP 7301 Comprehensive Patient Care Clinic B
Continuation of Comprehensive Patient Care Clinic A with additional emphasis on the treatment of pediatric, orthodontic, geriatric, and endodontics cases.

DISP 7303 Independent Study

DISP 7310 Implant Dentistry
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
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 7318 Critical Thinking and Patient Care Seminar
This course will provide the student with a practical application of the practice of evidence-based dentistry, critical thinking, formulation of clinical questions, critical appraisal of the literature and the translation of the biologic and social sciences to clinical patient care.

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
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.

DISP 7329 Clinical Endodontics
Clinical rotation in endodontics.

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.

DISP 7331 Clinical Oral Diagnosis
Clinical rotation in oral diagnosis.

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.

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).

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.

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.

DISP 7335 Clinical Fixed Prosthodontics

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Clinical rotation in fixed prosthodontics.

DISP 7336 Clinical Operative Dentistry Variable 0.1-5.0 cr.
Clinical rotation in operative dentistry.

DISP 7337 Clinical Removable Prosthodontics Variable 0.1-5.0 cr.
Clinical rotation in removable prosthodontics.

SECOND YEAR, Spring Semester

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

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

DISP 8104 Independent Study Variable 0.1-5.0 cr.

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

DISP 8110 Restorative Dentistry Advanced Clinical Training Service Seminar Variable 0.1-5.0 cr.
This seminar-type course is a broad discussion of advanced restorative techniques for complex prosthodontic rehabilitation or reconstruction cases. Specific topics such as anesthetics, TNJ considerations and materials application will be included.

DISP 8120 Endodontics 3 Variable 0.1-5.0 cr.
This course addresses topics of diagnosis and management of a variety of endodontic treatment problems such as periapical pathosis, traumatic injuries, surgical intervention, and bleeding.

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

DISP 8123 Clinical Endodontics Clinical rotation in endodontics.

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

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

DISP 8127 Medical Problems and Physical Assessment Variable 0.1-5.0 cr.
This course provides competent clinical basis for assessment of patient's medical history, current status including systemic disease/physical findings. Directs student from normal interpretation/prevention to systemic pathophysiology that presents as medical emergency, allowing for proper recognition/competent medical treatment.

DISP 8128 Hospital Dentistry Variable 0.1-5.0 cr.
This course provides an introduction to the hospital environment and the dental treatment of patients within that environment.

DISP 8130 Clinical Oncology Variable 0.1-5.0 cr.
An assignment of one week for students includes lectures, seminars, tumor boards, surgery rounds, and radiation therapy conferences on a health professional approach to the prevention, diagnosis, and treatment of head and neck neoplasia.

DISP 8131 Oral Pathology 2 Variable 0.1-5.0 cr.
This course is a continuation of DISP 7330.

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

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

DISP 8135 Clinical Operative Dentistry Variable 0.1-5.0 cr.
Clinical rotation in operative dentistry.

15 | School of Dental Medicine
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISP 8136</td>
<td>Clinical Fixed Prosthodontics</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8137</td>
<td>Clinical Removable Prosthodontics</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8140</td>
<td>Clinical Pediatric Dentistry</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8160</td>
<td>Dental Ethics and Jurisprudence</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8161</td>
<td>Practice Management</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8162</td>
<td>Dental Practice Planning</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8170</td>
<td>Diagnosis and Treatment of Common Oral Lesions 2</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8176</td>
<td>Public Health and Community Dentistry</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>
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<tr>
<td>DISP 8204</td>
<td>Trifinio Guatemala ISP Elective</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8205</td>
<td>Evidence Based Topical Reviews</td>
<td>0.1-5.0 cr.</td>
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<tr>
<td>DISP 8215</td>
<td>Clinical Oral Maxillofacial Surgery</td>
<td>0.1-5.0 cr.</td>
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<td>DISP 8220</td>
<td>Case Presentation 4</td>
<td>0.1-5.0 cr.</td>
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<td>DISP 8201</td>
<td>Comprehensive Patient Care Clinic D</td>
<td>0.1-5.0 cr.</td>
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<td>DISP 8203</td>
<td>Special Care Clinic</td>
<td>0.1-5.0 cr.</td>
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<td>DISP 8240</td>
<td>Independent Study</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>
</tr>
<tr>
<td>DISP 8225</td>
<td>Clinical Fixed Prosthodontics</td>
<td>0.1-5.0 cr.</td>
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</tbody>
</table>
DISP 8226 Clinical Operative Dentistry Variable 0.1-5.0 cr.
Clinical rotation in operative dentistry.

DISP 8227 Clinical Removable Prosthodontics Variable 0.1-5.0 cr.
Clinical rotation in removable prosthodontics.

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

DISP 8240 Clinical Pediatric Dentistry Variable 0.1-5.0 cr.
This course provides experience in developmental, behavioral, preventive, diagnostic, and therapeutic care on a comprehensive basis for pediatric patients in the primary, transitional, and permanent dentition phases and patients with special health needs.

DISP 8251 Clinical Orthodontics Variable 0.1-5.0 cr.
This 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.

DISP 8322 Periodontics 4 Variable 0.1-5.0 cr.
This course emphasizes the interrelationships of periodontics and restorative dentistry and the management of advanced periodontal pathology is discussed.

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.

SECOND YEAR, Fall Semester

DISP 8105 Evidence Based Topical Reviews Variable 0.1-5.0 cr.
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 8203 Special Care Clinic Variable 0.1-5.0 cr.

DISP 8300 Case Presentation 5 Variable 0.1-5.0 cr.
Patient care with development of treatment plan through presentation by student to students and faculty.

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

DISP 8303 Independent Study Variable 0.1-5.0 cr.

DISP 8310 Advanced Implant Prosthodontics Seminar Variable 0.1-5.0 cr.
Students gain experience in clinical use of cast restorations. Emphasis is placed on the fabrication of restorations that are to function adequately in the patient’s biologic environment.

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

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

DISP 8325 Clinical Fixed Prosthodontics Variable 0.1-5.0 cr.
Clinical rotation in fixed prosthodontics.

DISP 8326 Clinical Operative Dentistry Variable 0.1-5.0 cr.
Clinical rotation in operative dentistry.

DISP 8327 Clinical Removable Prosthodontics Variable 0.1-5.0 cr.
Clinical rotation in removable prosthodontics.

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

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

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.

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.

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, introral photography, record keeping and clinical protocol.

DPER 7112 Postgraduate Dental Implantology Seminar 1A 0.7 cr.
In this initial lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (Part 1 of three-semester course)

DPER 7113 Oral Medicine and Clinical Diagnosis 0.7 cr.
In this postdoctoral course, students review a variety of oral diseases and accepted methods of treatment of those as well as systemic diseases manifested in the oral cavity.

First Year, Fall Semester

DPER 7200 Periodontics Specialty Clinic 2 2.0 cr.
Prereq: DPER 7100
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

DPER 7201 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 7202 Periodontics Treatment Planning 1A 0.3 cr.
In this postdoctoral seminar course, Periodontics and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. (Part 1 of two-semester course)

DPER 7203 Periodontal Literature Review Seminar 1A 1.7 cr.
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

DPER 7204 Periodontal Case Presentations Seminar 1A 0.7 cr.
In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case
presentations simulating the oral examination for the American Board of Periodontology. (Part 1 of two-semester course)

DPER 7210 Advanced Periodontal Biology  
2.0 cr.  
This postdoctoral course develops a fundamental understanding of the microscopic anatomy, cell biology and physiology of the periodontal tissues in health, during disease progression, and following periodontal therapy.

DPER 7211 Pain Control & Sedation/Comprehensive Pain Management 1  
2.0 cr.  
This is a postgraduate course in pain control and sedation and patient evaluation to determine appropriate modalities of pain and anxiety control. (Part 1 of two-semester course)

DPER 7212 Postgraduate Dental Implantology Seminar 1B  
0.7 cr.  
Prereq: DPER 7112  
In this initial lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (Part 2 of three-semester course)

First Year, Spring Semester

DPER 7300 Periodontics Specialty Clinic 3  
2.0 cr.  
Prereq: DPER 7100, DPER 7200  
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

DPER 7301 Periodontics Current Literature 1B  
0.5 cr.  
Prereq: DPER 7201  
This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be discussed at scheduled seminars. (Part 2 of two-semester course)

DPER 7302 Periodontics Treatment Planning 1B  
0.5 cr.  
Prereq: DPER 7202  
In this postdoctoral seminar course, Periodontics and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. (Part 2 of two-semester course)

DPER 7303 Periodontal Literature Review Seminar 2  
6.0 cr.  
Prereq: DPER 7203  
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

DPER 7304 Periodontal Case Presentations Seminar 1B  
1.0 cr.  
Prereq: DPER 7204  
In this postdoctoral course, residents prepare and present a complete data base, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. (Part 2 of two-semester course)

DPER 7305 Periodontal Research 1  
1.5 cr.  
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

DPER 7311 Pain Control & Sedation/Comprehensive Pain Management 2  
1.0 cr.  
Prereq: DPER 7211  
This is a postgraduate course in pain control and sedation, and evaluation of patients to determine appropriate modalities of pain and anxiety control. (Part 2 of two-semester course)

DPER 7312 Postgraduate Dental Implantology Seminar 1C  
1.0 cr.  
Prereq: DPER 7112, DPER 7212  
In this initial lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (Part 3 of three-semester course)

Second Year, Summer Semester

DPER 8100 Periodontics Specialty Clinic 4  
1.0 cr.  
Prereq: DPER 7100, DPER 7200, DPER 7300  
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedure

DPER 8101 Periodontal Current Literature 2  
1.10 cr.  
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed. Requisite: Department consensus required.
DPER 8102 Periodontal Literature Seminar 2  
1.10 cr.  
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed. Requisite: Department consent required.

DPER 8105 Periodontal Research 2  
1.0 cr.  
Prereq: DPER 7305  
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, collect and analyze the results, and write a publishable manuscript on the project.

DPER 8106 Anesthesiology  
1.3 cr.  
This is a hospital-based seminar and clinical course to familiarize the resident in patient evaluation, pharmacology, airway management, IV techniques, and general anesthesia procedures.

DPER 8113 TMJ Clinic 1A (rotation)  
0.3 cr.  
Prereq: DPER 7313  
TMJ disorders are reviewed and treatment provided using a variety of pharmacologic, mechanical, and biofeedback methods in these clinic sessions.

DPER 8120 Head and Neck Anatomy  
1.0 cr.  
This postdoctoral course is an advanced study of head and neck anatomy as it relates to periodontal patient care.

DPER 8140 Scientific Wrtng & Eval  
1.5 cr.  
Refinement of individual projects, presentations, and research evaluation.

Second Year, Fall Semester

DPER 8200 Periodontics Specialty Clinic 5  
2.0 cr.  
Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100  
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

DPER 8201 Periodontal Current Literature 2A  
0.7 cr.  
Prereq: DPER 7201, DPER 7301  
This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be discussed at scheduled seminars. (Part 1 of two-semester course)

DPER 8202 Periodontics Treatment Planning 2A  
0.3 cr.  
Prereq: DPER 7202, DPER 7302  
In this postdoctoral seminar course, Periodontics and GPR residents present a documentation database, diagnosis, and treatment plans for patients treated communally in these two clinics. (Part 1 of two-semester course)

DPER 8203 Periodontal Literature Review Seminar 3  
1.7 cr.  
Prereq: DPER 7203, DPER 7303  
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

DPER 8204 Periodontal Case Presentations Seminar 2A  
0.7 cr.  
Prereq: DPER 7204, DPER 7304  
In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis/prognosis, treatment plan, treatment procedures, and evaluation of treatment results in formal case presentations simulating the oral examination for the American Board of Periodontology. (Part 1 of two-semester course)

DPER 8205 Periodontal Research 3  
1.0 cr.  
Prereq: DPER 7305, DPER 8105  
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

DPER 8206 Periodontics Clinical Teaching 1A  
1.0 cr.  
Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. (Part 1 of two-semester course)

DPER 8207 Minor Tooth Movement 1A  
1.3 cr.  
This didactic and clinical course will familiarize the resident with orthodontic procedures that can be utilized in comprehensive periodontal treatment. Clinical cases will be treated in conjunction with orthodontic residents and faculty. (Part 1 of two-semester course)

DPER 8212 Postgraduate Dental Implantology Seminar 2A  
1.0 cr.  
Prereq: DPER 7112, DPER 7212, DPER 7312  
In this initial lecture and seminar course, relevant readings in the dental literature relating to specific topics in
dentistry are assigned and critically discussed. A variety of cases are treatment planned by the residents. (Part 1 of two-semester course)

**DPER 8213 TMJ Clinic 1B (rotation)**
- Prereq: DPER 7313, DPER 8113
- TMJ disorders are reviewed and treatment provided in these clinic sessions.

**DPER 8221 Implants in the Orthodontic Patient**
- Prereq: DPER 7101, DPER 7201, DPER 7301, DPER 8101
- A 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 Periodontics/Orthodontic Treatment**
- Prereq: DPER 7201, DPER 7301
- This postdoctoral course is a study of the interdisciplinary care of the patient with periodontal and orthodontic needs and includes a review of the literature in conjunction with a periodontist and orthodontist.

**Second Year, Spring Semester**

**DPER 8300 Periodontics Specialty Clinic 6**
- Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100, DPER 8200
- 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 8304 Periodontal Case Presentations Seminar 2B**
- Prereq: DPER 7204, DPER 7304, DPER 8204
- In this postdoctoral seminar course, residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. (Part 4 of two-semester course)

**DPER 8305 Periodontal Research 4**
- Prereq: DPER 7305, DPER 8105, DPER 8205
- 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 8306 Periodontics Clinical Teaching 1B**
- Prereq: DPER 8206
- In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

**DPER 8307 Minor Tooth Movement 1B**
- Prereq: DPER 8207
- This didactic and clinical course will familiarize the resident with orthodontic procedures that can be utilized in comprehensive periodontal treatment. Clinical cases will be treated in conjunction with orthodontic residents and faculty. (Part 2 of two-semester course)

**DPER 8308 Practice Management**
- Prereq: DPER 8207
- This didactic and clinical course will familiarize the resident with orthodontic procedures that can be utilized in comprehensive periodontal treatment. Clinical cases will be treated in conjunction with orthodontic residents and faculty. (Part 2 of two-semester course)

**DPER 8311 Advanced Immunology/Microbiology**
- Prereq: DPER 7112, DPER 7212, DPER 7312, DPER 8212
- A postdoctoral course is an in-depth study of the use of implants in patients both for restorative dentistry and as an orthodontic anchorage.

**DPER 8312 Postgraduate Dental Implantology Seminar 2B**
- Prereq: DPER 7112, DPER 7212, DPER 7312, DPER 8212
- In this lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (Part 2 of two-semester course)
## Third Year, Summer Semester

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<tr>
<th>Course Code</th>
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<th>Description</th>
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<tbody>
<tr>
<td><strong>DPER 8314 Advanced Topics in Pharmacology</strong></td>
<td>1.5 cr.</td>
<td>This is an advanced course in Pharmacology that will provide residents with a review and update of pharmacology and an understanding of applied pharmacology and patient care.</td>
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<tr>
<td><strong>DPER 9100 Periodontics Specialty Clinic 7</strong></td>
<td>1.0 cr.</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><strong>DPER 9101 Periodontal Current Literature 3A</strong></td>
<td>2.0 cr.</td>
<td>In this postdoctoral seminar course, relevant reading in the periodontal literature relating to specific topics are assigned and critically discussed.</td>
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<td><strong>DPER 9102 Periodontal Literature Review Seminar 5</strong></td>
<td>6.0 cr.</td>
<td>In this postdoctoral seminar course, relevant reading in the periodontal literature relating to specific topics are assigned and critically discussed.</td>
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<tr>
<td><strong>DPER 9105 Periodontal Research 5</strong></td>
<td>0.5 cr.</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>
</tr>
<tr>
<td><strong>DPER 9106 Periodontics Clinical Teaching 2A</strong></td>
<td>1.0 cr.</td>
<td>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)</td>
</tr>
<tr>
<td><strong>DPER 9107 Perodontices Specialty Elective</strong></td>
<td>3.0 cr.</td>
<td>This postdoctoral course will allow the resident to gain extra experience and to concentrate in an area of his/her choosing such as research, teaching, dental implants, periodontal plastic surgery etc.</td>
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<tr>
<td><strong>DPER 9115 Advanced Diagnosis of Oral Lesions</strong></td>
<td>0.3 cr.</td>
<td>This program in oral pathology is designed to prepare the student to recognize, analyze, and appreciate primary and secondary disease conditions of the oral and paraoral regions which may present in patients under his or her care and to respond in an appropriate manner when these conditions manifest.</td>
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## Third Year, Fall Semester

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<tr>
<th>Course Code</th>
<th>Credits</th>
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<tr>
<td><strong>DPER 9200 Periodontics Specialty Clinic 8</strong></td>
<td>8.0 cr.</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><strong>DPER 9201 Periodontal Journal Club 3A</strong></td>
<td>0.5 cr.</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 and discussed at scheduled seminars. (Part 1 of two-semester course)</td>
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<tr>
<td><strong>DPER 9202 Periodontics Treatment Planning 3A</strong></td>
<td>1.0 cr.</td>
<td>In this postdoctoral course, residents prepare and present a complete documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. (Part 1 of two-semester course)</td>
</tr>
<tr>
<td><strong>DPER 9203 Periodontal Literature Review Seminar 5</strong></td>
<td>4.0 cr.</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><strong>DPER 9204 Periodontal Case Presentations Seminar 3A</strong></td>
<td>2.0 cr.</td>
<td>In this postdoctoral seminar course, residents prepare and present a case presentation simulating the oral examination for the American Board of Periodontology. (Part 1 of two-semester course)</td>
</tr>
<tr>
<td><strong>DPER 9205 Periodontal Research 6</strong></td>
<td>2.0 cr.</td>
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</table>
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

DPER 9206 Periodontics Clinical Teaching 2B
Prereq: DPER 8206, DPER 8306, DPER 9106
Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. (Part 2 of three-semester course)

DPER 9209 Periodontics Specialty Elective
This postdoctoral course will allow the resident to gain extra experience and concentrate in an area of his/her choosing such as research, teaching, dental implants, periodontal plastic surgery, etc.

DPER 9212 Postgraduate Dental Implantology Seminar 3A
Prereq: DPER 7112, DPER 7212, DPER 7312, DPER 8212, DPER 8312
This lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (Part 1 of two-semester course)

Third Year, Spring Semester

DPER 9300 Periodontics Specialty Clinic 9
Prereq: DPER 7100, DPER 7200, DPER 7300, DPER 8100, DPER 8200, DPER 8300, DPER 9100, DPER 9200
In this postdoctoral course, students receive experiences with all accepted methods of periodontal treatment, dental implantology, and periodontal plastic procedures.

DPER 9301 Periodontal Journal Club 3B
Prereq: DPER 7201, DPER 7301, DPER 8201, DPER 8301, DPER 9201
This postdoctoral course encompasses a review of the latest dental and medical journals for the most recent information related to the art, science, and practice of periodontics. Students prepare abstracts to be and discussed at scheduled seminars. (Part 2 of two-semester course)

DPER 9302 Periodontics Treatment Planning 3B
Prereq: DPER 7202, DPER 7302, DPER 8202, DPER 8302, DPER 9202
In this postdoctoral seminar course, Periodontic and GPR residents present a documentation database, diagnosis and treatment plans for patients treated communally in these two clinics. (Part 2 of two-semester course)

DPER 9303 Periodontal Literature Review Seminar 6
Prereq: DPER 7203, DPER 7303, DPER 8203, DPER 8303, DPER 9203
In this postdoctoral seminar course, relevant readings in the periodontal literature relating to specific topics are assigned and critically discussed.

DPER 9304 Periodontal Case Presentations Seminar 3B
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
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
Prereq: DPER 8206, DPER 8306, DPER 9106, DPER 9206
Postdoctoral periodontics students gain experience in instructing dental and hygiene students after receiving instruction in the basics of didactic and clinical teaching. (Part 3 of three-semester course)

DPER 9309 Periodontics Specialty Elective
This postdoctoral course will allow the resident to gain extra experience and to concentrate in an area of his/her choosing such as research, teaching, dental implants, periodontal plastic surgery, etc.

DPER 9312 Postgraduate Dental Implantology Seminar 3B
Prereq: DPER 7112, DPER 7212, DPER 7312, DPER 8212, DPER 8312, DPER 9212
This lecture and seminar course, relevant readings in the dental literature relating to specific topics in dental implantology are assigned and critically discussed. A variety of cases are treatment planned by the residents. (Part 2 of two-semester course)
### Fall Semester

<table>
<thead>
<tr>
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<th>Credit Hours</th>
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<tr>
<td>DSGD 5105</td>
<td>Research Methodology &amp; Biostatistics</td>
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<td>DSGD 5205</td>
<td>Research Methodology &amp; Biostatistics 2</td>
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<td>DSGD 5311</td>
<td>Scientific Writing and Evaluation</td>
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<tr>
<td>DSGD 5441</td>
<td>Fundamentals of Teaching / Communication</td>
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<tr>
<td>DSGD 5311</td>
<td>Diagnosis and Treatment of Craniofacial Pain</td>
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</tr>
<tr>
<td>DSGD 6114</td>
<td>Advanced Oral Biology</td>
<td>2.3 cr.</td>
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<tr>
<td>DSGD 6115</td>
<td>Biomechanics, Bioengineering and Biomaterials</td>
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<td>DSGD 6201</td>
<td>Ethics, Practice Management &amp; Jurisprudence</td>
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<tr>
<td>DSGD 6209</td>
<td>Advanced Head &amp; Neck Anatomy</td>
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**ORTHODONTICS CERTIFICATE PROGRAM**

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

### FIRST YEAR, Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>DSOR 5101</td>
<td>Orthodontics 101 – Boot Camp</td>
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<tr>
<td>DSOR 5102</td>
<td>Dentofacial Growth and Development 1</td>
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<tr>
<td>DSOR 5103</td>
<td>Diagnosis and Treatment Planning 1</td>
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<td>DSOR 5104</td>
<td>Biomechanics 1</td>
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</tr>
<tr>
<td>DSOR 5105</td>
<td>Research Methodology and Biostatistics 1</td>
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</table>
data gathering, and the biostatistical tools required to analyze the results of a study.

**DSOR 5107 Treatment Planning 1**  
4.0 cr.  
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 5108 Current Literature Review 1**  
1.0 cr.  
Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

**DSOR 5111 History of Orthodontics & Dentofacial Orthopedics**  
1.0 cr.  
This post-doctoral course is an in-depth study of the development of orthodontic treatment and of orthodontics as a specialty, including the study of prominent figures that played a part in specialty and treatment development.

**DSOR 5841 Research 1**  
0.4 cr.  
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

**DSOR 5931 Clinical Orthodontics 1**  
7.8 cr.  
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

**FIRST YEAR, Spring Semester**

**DSOR 5201 Pathology/Microanatomy**  
1.2 cr.  
This post-doctoral course is an in-depth study of orofacial pathology and microanatomy that is pertinent to orthodontic diagnosis, treatment planning, and treatment, to include the micro-anatomical effects of tooth movement.

**DSOR 5202 Dentofacial Growth and Development 2**  
2.5 cr.  
Prereq: DSOR5102  
This post-doctoral course is an in-depth study of human growth and development that includes the affects of treatment on growth and development.

**DSOR 5203 Diagnosis and Treatment Planning 2**  
2.5 cr.  
Prereq: DSOR5103  
This post-doctoral course is a continuation of the in-depth study of advanced orthodontic data gathering and interpretation as used in orthodontic diagnosis and treatment planning.

**DSOR 5204 Biomechanics 2**  
5.0 cr.  
Prereq: DSOR5104  
This post-doctoral course is an in-depth, advanced study of orthodontic biomechanical systems and their effect on the craniofacial and dental structures. Included in this course are the protocols required to treat both skeletal and dental malocclusions.

**DSOR 5205 Research Methodology & Biostatistics 2**  
2.5 cr.  
Prereq: DSOR5105  
This post-doctoral course is an in-depth study of scientific research methods, study design and organization, data gathering, and the biostatistical tools required to analyze the results of the study.

**DSOR 5207 Treatment Planning 2**  
5.0 cr.  
Prereq: DSOR5107  
This post-doctoral course is the case-based study of advanced orthodontic treatment planning. Post-doctoral students are required to present patient diagnoses and proposed treatment plans for faculty and student discussion, to include treatment modality presentations by students.

**DSOR 5208 Current Literature Review 2**  
1.3 cr.  
Prereq: DSOR5108  
Course is the study, analysis and discussion of journal articles and topics that are prominent in orthodontics within the previous year. Post-doctoral students critically review and analyze the articles to determine advances in the art and science of orthodontics.

**FIRST YEAR, Summer Semester**

**DSOR 5211 Treatment in Preadolescent Children**  
1.5 cr.  
This post-doctoral course is a study of the orthodontic and pediatric care of the preadolescent patient, to include preventative and Phase I patient care.
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<td>DSOR 5842</td>
<td>Research 2</td>
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<td>DSOR 5932</td>
<td>Clinical Orthodontics 2</td>
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<td>DSOR 5301</td>
<td>Head and Neck Anatomy</td>
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<td>DSOR 5304</td>
<td>Biomechanics 3</td>
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<td>DSOR 5306</td>
<td>Dento/Craniofac Anomalie</td>
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<td>DSOR 5307</td>
<td>Treatment Planning 3</td>
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<td>DSOR 5311</td>
<td>Scientific Writing and Evaluation</td>
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<td>DSOR 5321</td>
<td>Orthognathic Surgical Treatment</td>
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<td>DSOR 5843</td>
<td>Research 3</td>
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<td>Clinical Orthodontics 3</td>
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<td>DSOR 6101</td>
<td>Implants in the Orthodontic Patient</td>
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<td>DSOR 6107</td>
<td>Treatment Planning 4</td>
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<td>DSOR 6106</td>
<td>Dento-/Craniofacial Anomalies 4</td>
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**SECOND YEAR, Fall Semester**

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<tr>
<td>DSOR 5308</td>
<td>Treatment Planning 4</td>
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<td>DSOR 5311</td>
<td>Scientific Writing and Evaluation</td>
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<td>DSOR 5321</td>
<td>Orthognathic Surgical Treatment</td>
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<td>DSOR 5333</td>
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<td>DSOR 5331</td>
<td>Dento/Craniofac Anomalies 4</td>
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<td>DSOR 5308</td>
<td>Current Literature Review 4</td>
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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.

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

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.

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.

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

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

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.

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.

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: DSORS5931, DSORS5932, DSORS5933
This post-doctoral course involves the advanced treatment of orthodontic problems and patient care. Supervision is provided by educationally qualified orthodontists to provide high quality and efficient clinical patient care.

SECOND YEAR, Spring Semester

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

DSOR 6206 Dento/Craniofacial Anomalies 1.1 cr.
Prereq: DSORS106, DSORS206, DSORS306, DSORS106
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: DSORS107, DSORS207, DSORS307, DSORS107
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: DSORS108, DSORS208, DSORS308, DSORS108
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: DSORS541, DSORS542, DSORS543, DSORS644
Course requires student to select a research topic, define a research question, do a literature search on the topic, organize a research project, carry out the project, collect and analyze the results, and write a publishable manuscript on the project.

DSOR 6935 Clinical Orthodontics 5 11.1 cr.
Prereq: DSORS931, DSORS932, DSORS933, DSORS934
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 advance course studying orthodontic treatment diagnosis, treatment planning and treatment results.

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

DSOR 7848 Research VIII 0.6 cr.
Postgraduate course study requiring student to select research topic, define research question, do literature search on the topic, organize research project, carry out project, collect and analyze the results and write a publishable manuscript on the project.

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

THIRD YEAR, Summer Semester

DSOR 7107 Treatment Planning 6 2.2 cr.
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<td>DSOR 7112</td>
<td>Orthodontic Clinical Teaching</td>
<td>0.9 cr.</td>
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<td>DSOR 7108</td>
<td>Current Literature Review</td>
<td>0.7 cr.</td>
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<td>DSOR 7393</td>
<td>Clinical Orthodontics</td>
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<td>DSOR 7207</td>
<td>Treatment Planning</td>
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<td>DSOR 7209</td>
<td>Orthodontic Predoctoral Laboratory Teaching</td>
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<td>DSOR 7847</td>
<td>Research</td>
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<td>DSOR 7937</td>
<td>Clinical Orthodontics</td>
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<tr>
<td>DSOR 7939</td>
<td>Clinical Problems</td>
<td>1.0 cr.</td>
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</table>
Course is a case-based course to study clinical problems encountered in the practice of orthodontics by the orthodontic specialist. It requires the student to analyze and then present the records of patients who encountered less than ideal results during treatment.

**DSOR 7940 Orthodontic Retention I**  
3.0 cr.  
Retention techniques, clinical studies in retention, and study of post-treatment changes in orthodontic patients. Prereq: Successfully completing Years 1 and 2 of the postgraduate program in Orthodontics and Dentofacial Orthopedics.

**DSOR 7941 Orthodontic Retention II**  
2.0 cr.  
Retention techniques, clinical studies in retention, and study of post-treatment changes in orthodontic patients. Prereq: Successfully completing years 1 and 2 of the postgraduate program in Orthodontics and Dentofacial Orthopedics and successful completion of the DSOR 7940.